

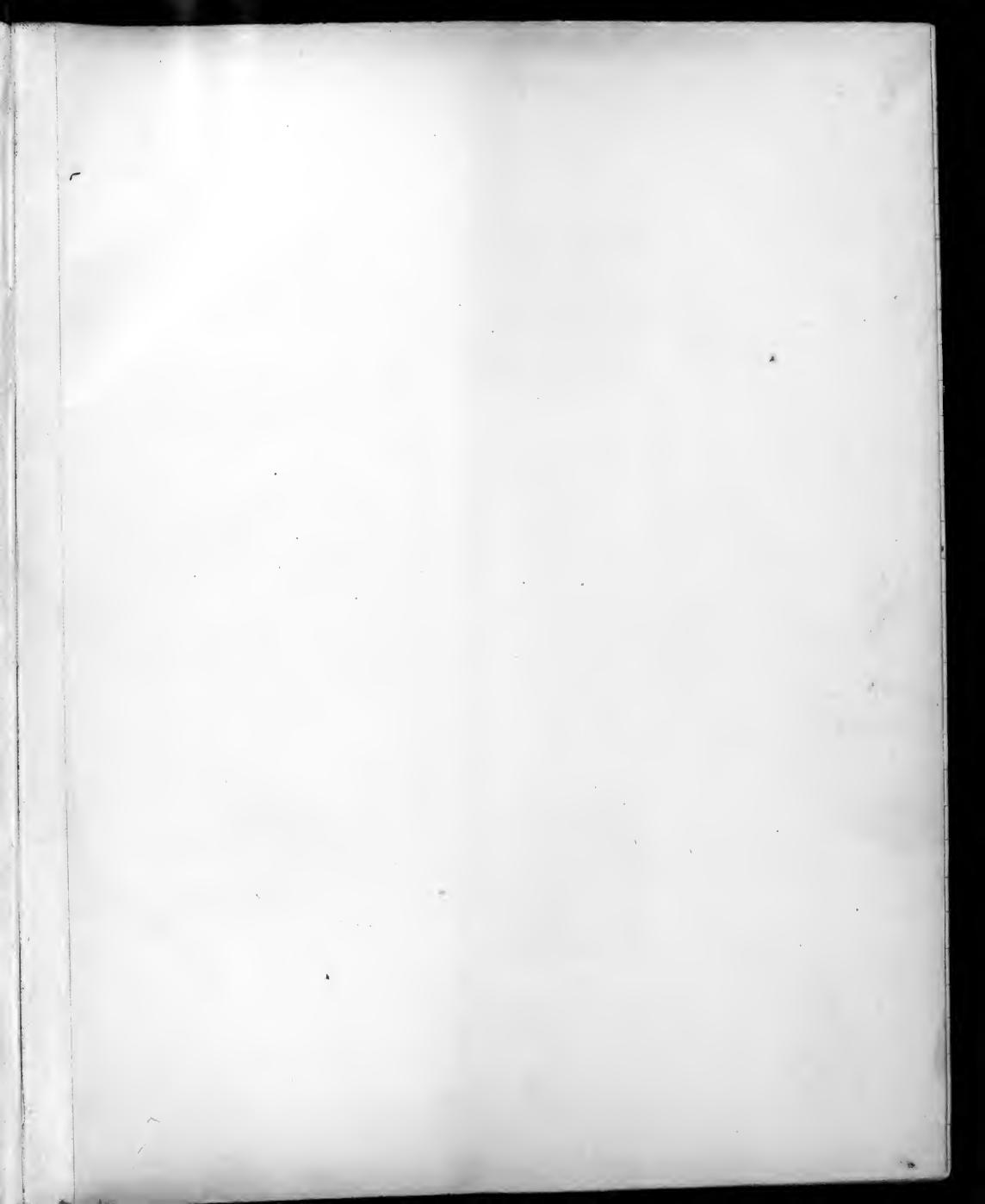
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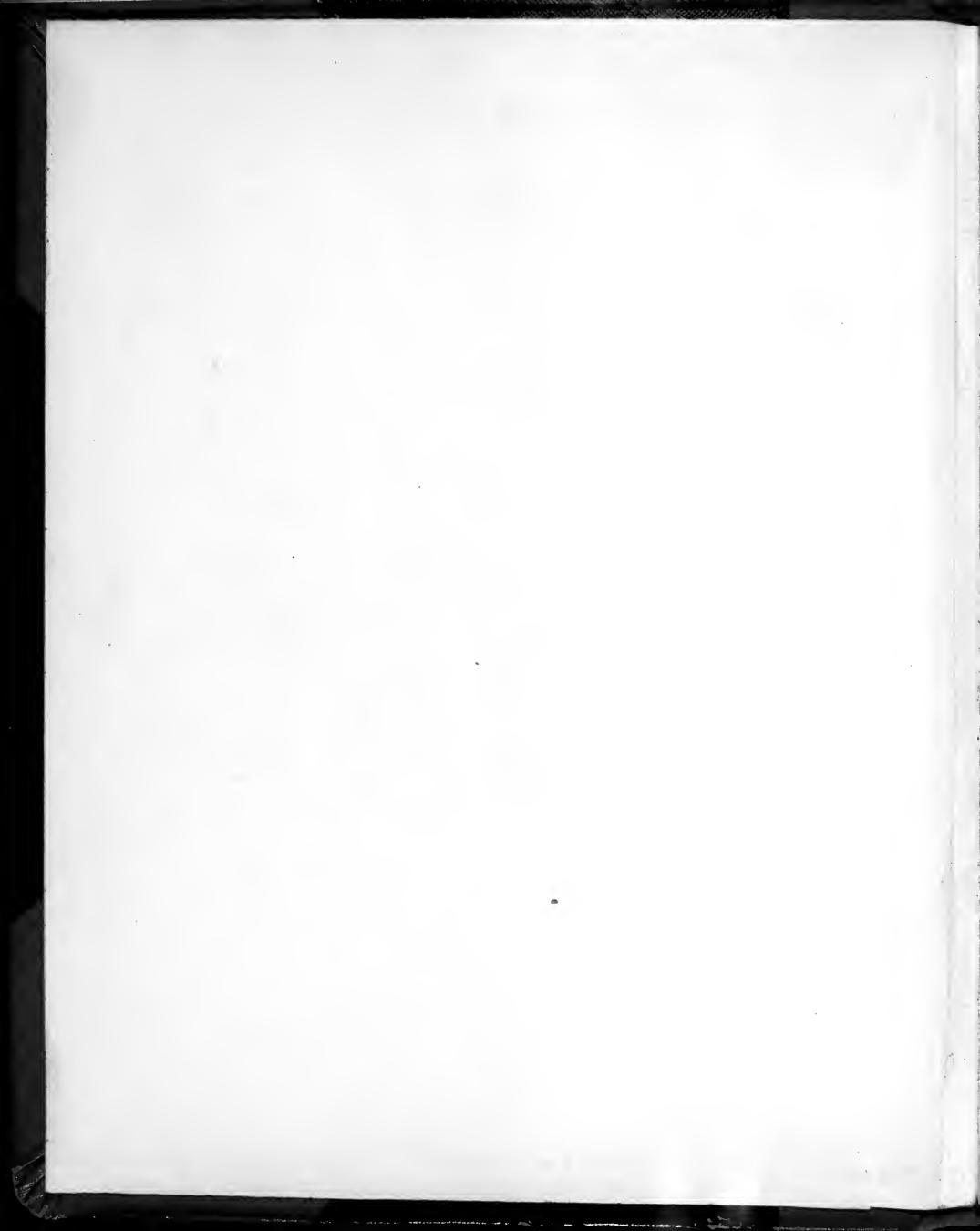
NAT. SCI.

ACADEMY

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July 20, 1919.

Reft Phila. 1.11 P.M. on Penn. Reinited. Rain steadily or intermittently for a week. Rain followed us to Pittshing. We had Thirteen cars and a single engine took us one to Middle plinision at many places more than 11x by miles an hour. At Altoma they explit our train to get us our the "Knocke." It left Pitts brig in time.

July 21, 1919.

In arrived at Chicago 9.00 All, changed for a. D. J. I. station [heartone) and had about turnty fire minute to to the fauta Fe "Navajo" at 9. to all. This carried an observation can as far as had funta - but human is un interested of this, as we had been on the Penn. A. R. M. made very first time across Illinois, which was to dry that the dust a dist was my bad. The day was cloudless and the amount of wheat waiting to be threshold beened endless. Through Missories Threshing was ging in. Missories Threshing was ging in.

uly 22, 1919. En unto. - La junta, Colorado m breakfasted at hledge City. to Rausas at 1 00 am. (miter. time). The wheat here about a had layely been threshed, and the rains had what seve married at he punta at 12.30 P.M., and of our accumodation at the Harvey System 14th where we had stopped wifne, Ofter tweels in got a jotney and way ent to the buch of the plains unth of the rim where the Dimpus Lines kare homes rushy hills. In which in there fills and the training surface unthe much rain and the lower was much baked in most places. In had my first much a night hanh (sp ?) The Pipit ran along quito close and held thalf my weet. The right hanh I tushed prosotly from a nest as the house about the same sport he the envirey, while I put up stuff, It. went out with the light - jetney and got some fine Erempeden south of

July 23, na muta r Friedad, Colorado. a mile east of time where we unhely for about two + a half hours in the low, sparse orgetation of rolling planes, much grazed and down along the Carbons Ring, in rime bank wieds and sedges. 14. Exp. 1 which yielded seemed species un Fisher had not taken so far at la junta. Puch from after lines of left La Junta at edge of 1.40 P.M. In Friendad, where we ment of arrived about 3.4- Clu the way we muidad had a splendid new of Spanish Peaks If to the most, a toming tifid Imap. come, which changes as The road fum a fino to, now seeming little clift and und very deeply cut. Shaply ahead Itando out Trother Peak near Friedad, a land-mark with ito elevated mesa bench summent. after getting instabled in the Cardens it struck if nest and und up the slopes of the mesa west of form, up The crumbling sundstone slopes slippery with linke stato, and about on the in the park-like summit, which is datted with pinon and junipur, which also cloth the slopes, The top apparently has a fort aline

tager, which tripped its fair fras. Coming down is descended a northheavily under with a decided have tager, when compared with the south facing sie is but ascender had nesto un beligraph poles - ming.
All (i.e. jus) flying. M. Don- Lemal at ha funta a tites hay. adrindad. July 14, Froheis Peak, Katon Mesa, Celerado. In left the Cardenas at 8.00 ass. in a machine, which was to take us us wear Frohis Peak, which is due east i willed Film / Cexp. 2. as they can get a car miche the Eastin point unthe side of the outliers of the reale of Butlett mesa, aurosestrich is really only a remant. Carry on of Kulm Mesa, which waches a need gray Crail, of one 45 00 rest, the upper rise mund talin from to her laule fut us very muy unty unteren walls ut approx of volcance makinas, which towns Stor feet. The turnet to of I lution in an drys 16 Lucy. which was try present the winty even. The drive tothe us up Juny Crush Carryon to the wille wing Lettement of Juny Creck, which is

it un éleration e, 6/10, est. "he peale Film to three miles are my, but The walls Cepp. 3 and trails are any por, imudalny Lucasana + Fisher ung mendering to that it is - Trale, a first IIX miles to the peak by men cast, fruit. We under up the eld read Fulum at Abrad . which it there up the carry in to your just. about 8000 peet, then turning sharpy J+170.16. duap. to the right struck or the peak. / Sufre closes At This we last the Filan 1 rad and fot about seven hundred Cerp. 4 feet higher up in the castinistipe. towarks Lotes Laso It Ilming what were merely cattle met tracks in a ving steep stope we undergr pussed a small take at too sect, y Eray Cruh and pushed on to 9 000 peet, where Canyon in could see the remainder of the est approx ascent had exactly simular vyet 2000 feet Lystering in clos was compared of percipiters uschungen with super. In until track dem JY10 16 cattle trails to the carryon und 1 maps and then down to frag truck, where in mud the markine and mere fim ach in Mundad to a ford driver. He and fort results mus took me species (Mistolique countries of which we had were taken lafrace. tel is en ve.

wills urranden rundad, ut un the ation. 3 6 con tell. Instrudition runs up who the bunches to in Cruck, but it is intraperson patches of ratest ming was use on I cattered and park time. It tous distunce wind do a way livere, is what 6500 put we returned term an ureas, & lattered to land by an es it west week warms conditions is outed tome reacher und where it confirmes, and the last paten plans dement, i.e. rabit used, was noticed at 1000 rect, along the end he rake nave many lozuex + cattered them, but I here, but I seek places the stands ulmost pour let about 6400 seet the rest & callered fus me seen, and when this they became muse mines with de ti patches in The quellys with & treams But sew hell sine une seen, let about 7800 feet the aspen occurre evident. What the Lake at I for rest were quite a few his and along this was vale saut with trallered fin, rushing to the primipiton with wards if the puch.

ay. It (1 munder form).

Trobero Peak une yenny Majore. hardly able to fly. with 3 tord, pure white malprele undurante. at 1500 feet in fray Creek carryen. Luishadee heard at 9120 feet. willed at 1200 feet en Rallesmake cah scrub. Length about 4 feet. July 25, 1919. Fruidad, Colorado to Santa Fe, new Mexico. In the UIII. we had a jitney take us not Semal miles south of Friendad, to a point in the mesa where scattered pium and juniper mere in taidence. Here in wished for three hours at elec The yield was fair, but not exciting, and in did not find semal of the fray Creek species mene troling for. In had a winderful view off to the met - The Spanish Peals Vare of sumo, but The Cristo range with much some in

The carryons. This freat range is inst impression, for more to there the relatively nearer opanish Prakes

he left Drundad at 3.40 P.M., trus for Iduta te. Me had dunner at ras begas und arrend at rany at 11. 20. P.M., on time, although we had left Truidad of munition cato. The spur train to Santu te had to want in a instrue connection, due at 12.30 UM., which did not arrive metil 1.00, and it was short 2.30 when we arrived at Santa Fe. Un the way up in the trace we had a long talk wath a thereft of a southerstine Colorado county. who was brund for fauta te me requisition papers in a man kunn to be mean ditor City, who was united in Colorado. He was quite a charactri quiet but the East man you would want after you.

July 26, Santa Té la Saddle at l'ase of Santa
1919 He Boldy Peak (lev 11000 int).

me arose at 1.00 UM. ufter a few homes
eles and after vient ast Minday went
out and made full arrangements
in our trip to Santa Té Baldy. Inc lift
at 1.30 P. M. Three saddle homes, in
puch mule and outfit iling minte
and cook amed the outfit he was an
ideal fellow, a man of timederable

education und au frest suince man. Magan and I had splendidly juited unses, which were thoroughly trail trained. (Em trail wound on the wills, Through & pinen and jumper, into a carryon which prew deeper and deeper, us will as strepu and steeper and were scattered pines, then nine & une breame endent, be untimed to climb and intered the Canadian fus and aspen, up and up, on Streper grade, how after home, tuning then of Lake Peak (12380 int) and Sant & Re Baldy (12623 feet). m got closer and closer to Baldy and frielly at the saddle between Baldy and Lake leah in made camp at \$ 10000) feet. The view to the mot was wonderful, one the Kio franke balley, with the Juney muts to the west, the Sandia and Certis mt to the south, while away off. to the N.W. in could just see San automos Peak, mot of antimito, Colorado. Our camp was in the Hudsmian finites, firs, much of which was burned many years ago and is now largely windfalle Uvu us Amuel Baldy Peak, while urmed us were meading glades in The funder . The surbet to The

Mist was unduful and we talked und sat armed the fire until will after 11.00 P.m. The afterplan , the Junet was underful. July 27, Janta te Baldy to Upper Desugne Cruck, 1919. Sunta te Runge, n. M. Incomming was very cost, we sait I mud Tilm#1 difficulty freezemy my feet warms during no, S. Lake the night with 2 blankels to sleep in. Frak from buy shortly after breakfast in had a n. i, e. so. visit from a solvishey jack and a least masel, who ran under our tent and stope of Sunta Re Topldy - elev. was collected in emoquence at 11 150 jut. 7. so am. + started up the stope of danta 8.05 Mm. Te Buldy, Mygan harry preceded me by 10.6. Santa about ten or foften minutes. The going The Baldy a Thousand fut of completely burned & peak from fullen timba. at 11000 feet up bresthing at 11 900 feet. is difficult under exertim , and the wigh 16 stop map stopping on the frunk was a heavy fax 9.30 am. in my bristling. I reached 12 000 fut, or about a hundred feet above timber-line wasel und saw Morgan des conding, as Caught I know from this that he had little unning 1. un under tucus, and that we into hed to feut . g. presh back turn down, into the Canad. Unable to Time I joined him and we utured taliness. thull danged

to camp. The Hirdsonan and Westre-Ulpine lorses, about camp and to sud alors timbu- wice, me umduful in variety and color. When we arrived at camp it was indent we were in for a Thomas, and it struck us immediately after tunch, and delayed no return Hut until 1.30, when in set off in the rain, which continued as a driggle for the bitter part of an hour, munhed ut 10000 feet, again at meadow at head of Chipidero Cruk at 8500 feet 74 ov feet. In had threatured sain but no developed more than spilo. Kann, Ulue en prah'e envin sæddle? Touly meter, Juy. Cere at "Saddle" camp lumpletite Blue trid - Olive in Good timber near " Ladolle." Ou killed at "faddle. deast Masch. Upper Lesuque Crech to allriquerque, July 28, 11.m. Film#2 This running our houses had quietly I decompred and it took an how to started of Cerusmin started down the trail, stopping to

unh at about four places, while high

1919.

no.f.

at uppen

Jesugnes

Crub Comp

Suntà Té at 1.00 P.M., pached, made the 4. 20 train run through sain part of the way to Larry and again between for terribles and planningo, aring at allrique at 7.35 Pm. In put up at the alvando. tural at upper desugne hong Cristia Jay. July 19, 1919 Celling verque to De Jeras Caryon Landia Mito, Angria Men Mixino Felen# 2, Ut 9.00 am. in left the "alrando" inth no. 2

Environment a machine, which we had hered, with driver, for all day brificot stopped about two miles wast of allagrangers in rabbit and patches, with much? to high. pinet reaches of Dijuras Campon. twolle med. Here in had fair sures no,3. The whole country has had much Environment Earn richtly and the fragers had in lower franshippers and some few to adults. Dijeras Canyon Mest oh. plutter From there in push in to Vigeras 20.4 Caryon, between the Jaidea and Environ Mangano Mountains, to the little on mesa at village of Dyerus, at an elientin mot find Sunden 16500 feet and around in the J. 6. O Range. side, of the Sandias. Herow unhed Plagiorhia in primises or punyon and in rabbit

Illeded ic unhed The machine, a Cadellac, up no.1. a my theep side canyon and we Crotoplaytus led some unh at 65 so feet in Mesa at heavier jumper with some maple of Salidea and scattered pine (hell). Here and scattered price (trill). Here July 29 bolli type. On the return trip we 1919. unhed first near the mouth of The carryen in slopes with much ruch, next in the mesa just net side of the suls, where we for among the things Platinstina, 1 FR, 19 At hast in unhed in country very Similar to our first morning strys, and here I fot another Plagnistica. In arrived at the hotel at I M, an had probably the hardest push we inve un had to fat in making finished, pained, eat and atting to buffage by 8.30 P.M., whener left for Wis last, lingsuce in the Huper. Lunaf en musa. blesut hach. Crotophytio collais. One in land. unichiguini One coll. on mesa at fort of

July 36, 1919. ale. 2. Mis low, angina. Crotyphing: In arrived at misters at 7. or all and Hollowhia 4 som une installed in the fauta te Wa I Harry Womes and had a find breakfas, In struck off to the south across the red silt, which is the mathering of the undulying Mocurepie shales. To the 40 S. muthinaid and southerand extends the Coursen at Winslow. the fainted blesut, but it is must finish ispecially intrusting to the mothers of the where afar off to the muth cast rise; ete. the butters and mesas of Jusayan, the Hypi country, wierd in color and with the play of cloud shadow upon it. Me unbed off to the muth will me two wiles and had my forst success, picking up much not presions by kenne from this puit of the country, also quite a few lizando. after lunch in struck off north formed the hittle Colorado Kim which is the centre of the Parith d blesent, and unhed for about three home. In left misters at 6. 20 from Hagstaff where we arrived at 8.19 1.m. hyudo taken. Kilden at slough near Minstons.

July 31, 1919 Flagstoff + Jan Francis co Peak, Chrisma magnis discorry of a large, Mertioner no 3. Phrymson effective and active colony of N. W. slope of Jun Transiers Ciney. The best we could get was Peako two beds in an old sum partir in me of govo fut. The little, but these me clean and we fast at a Chinese restaurant in startes with a machine & drive to get as far 11 pm Jun Francisco Montain as we emld get with a car from Plagstaff around to the most of the peaks and up to about 9000 feet extends the wine-Hatian, mixed at its higher levels with good feet aspend treamy without found here in and get with a car, and fine This stretched for about two mules open unstain meaden, know brully as Hartes Mendow. The day was gray, with little seem and driggles which furned in the afternoon to henry thurder-storms, The peak being largely in clouds. Me crossed this meadono-M. +) - fet very much intensting matrial, entired The

aspen and fin alm it and unhed up some hundreds of feet through dripping vegetation! he had no luck in the forest and in returned to the meadow to unh back to the can fur below us. In had reached about 10,000 feet in the west side, Canadian and the lower edge of the Hudsman zmes. On the way buch in stopped in the upper pine brust and in the frust in the platrace, with but mederate success at the free and almost some at the latter in run through a heavy thounder stonic thankful in ince not in the harrible mountain road at that time . We had a good climer at an Chinamaria, and lift about 4.00 P.m., In ash Forke, himsel at the "Escalante", the Warry Amse.

abberts squinel. Ins in the pine frest.
huge grand sqf. or (?) prairie drg. Yapping
in the high mendow. Saw me relatively
tour down, which run like a manust.
Callospossephelus. Commin in Kinda,

Might I Annole. In june fræt.
Myht I Annole. Ins at Flagstaff.

Monad Dond. Ulne taken.

Aug. 1, 1919. Ash Frik, arigina. Eles. 5100 feet. for the unthinet, unling town a cow for the unthwest, withing toward a thill of volcanic matrial with ali# 4 Scattlind junipous in its stope. The ale#5 If to the most in the platrace its was they raining stradily, while to Inme in the wat, in the desert the seen was land latter shining must of the time in had pulet mader fair results, but nothing startling, that of him. after Curele un wanted a that distance due unet of them to and armed a cinder come which is true utilized for railroad ballast. This trys was my unproductive and we returned to the letter about form, put up material, packed, had decine and left at 6.20 for Kingman The trip was must interesting and also protracted. In word the autorey down frank the Colorado, Through

served long carryons. In the carryone just mot Abalentine in passed a fright wrich, where Ano engines and thirtuen caro had pumped at a wash. out, killing me man and making mine meat of the cars. at Hackbury in me held by ansh-outs ahead from 8.45 P.M. L. 4. 30 CM. In me in the husher, as in could not get in the full, and it was anything but a smight me passed thetal did some good work int on the hills with the flash-lump. In amond at Kuigman about 5.00 asu, ince installed at the Bile Witel and som had a little nune sleep. Augehongs Aug under Rich Men. Sumal at lish Inkat. Great Blue Hern. Aue flying puralles to the train for some distance near Jeligman.

Aug. 2, 1919. Kingman angena Elev. 3336 + feet.

Offer serial homes of fitful sleeps we

ale # 6. arrae at 8. vall, had some breakfast

1 Salopone at a Santa Te cating house and
2 Commidge then struck not. The minity of thing1 Castoph colles man is what I muld call high deaut
with Civillia, pointing cholla, a

few outello and low yunas, the hill close to the tom go up about a hundred a fifty to two hundred fut, while off to the I. E. in the high Hualpai Mits (un \$200 feet) and to the north rises the lower, but economic important Certat range. By now & in had picked up mist everything in could exput, and upon inquiry in front the west brind trains had bureauchled, in account of a bridge met at Gallup. There was, Medles some time in the afternoon and we me told in might go on it. The frught pulled in about from a left about from therty, but before it left in saw the caline of aweast brund freight put buch in the track after it had jumped a surtch. Riding in a cabone at the end of forty cans the taking up the slack of a long train is enough to throw preactors a car, married at Needles at 7.30 P.M and had a harrying experience carrying bags to the hotel from the und of the freight. Needles was lived up to its reputation, and at 9.00 P.M. et uno 95° ent dons. m'had a ford some + both at the "Guess" and retired early to try to sleep & prospere.

bleset Spanne. Cleve.

Enemidjølines (as collected. Utv. Crityship cettaris)

Duy. 3, 1919. Needles, California. In the moning I had an ugsset stomach en I got up, but a good dose f salt water and me of Mingario headashe pills fixed me up Homme, it was though best for me not to go out in the field in the UM, so I stand in and unhed in proof. M. returned at now is some interesting things from the forthills, and as Dytthotyle. The day was exceedings hot, probably 110 in the shade and any effet was huderiable. after lunch wi mut down into the sime flats and unhed for about three homes in the arrow med and rushes and in the much flato and in a small area. He will me fair but not ut a exciting. he slept on the proch on cots in the enning.

aug. 4, 1919. needles, California. at) so we were some out on the desert Mo. 6. mesa inst of the city about a mile Possilofittes plant, mot and a half. In had a car take us of needle out and lean us, and we unhed undig JAp 16 12.30, four hours of steady broil. The hup. heat was very great, but we stood it a no. 7. great deal little than I had expected arrayo un which same in mulis. The results in splend frow wino gitting & plendid series of Tylllityle and forcilo tettix, as well as surral. ment of Janaourus Porchetitle a dy though rypuphs of Danacrenes, ex houstere search 1 th 16 failing to reval adults of the latter frap, after buch in put up striff packed no. f. a shipment of nine boxes buch have, Jugic. same place puched a checked our fruits to Beatty and repacked our traffage. Then we had just ennigh time to get an dumer and catch a stub train running from Thuslow arigma to Los Congeles, on which in une grup to trans to goff, Cal, 31 miles inst of Needles and 2000 feet higher. The pull up out of the Colorado Valley was interesting weld it was a There is got quartered in the little hotel, which was rough hit clean.

autilipe Grund Syfurrel. Une at Heedles

Inch Rubbit. One at Medles. Apprently Pon-will - a Whip-pom-will Type- 2 in shade of bluff on Medles White-niched Rance. From along R.R. Frach betw. Needles . Goffs. Aug. 5, 1919. Joffs California. Eled. 2584 fut.
Mans at 6.45 1.M. at a splandid ale. #7 night's sleep, so cost at early non 2 Callisauries that a grilt was required. Wither 1 Scorpion: a good substantial breakfast we Struck of to the south, across the Tun# 2 greateurs slipe, feathy rising to no 9. The no granite - brealt hill to the angrow south 12 to 2 miles, he would to at 1750 the top of the hills at about two mules brokers distant and back to town spending inth about me hours in the field. Whitely 3.50 PM For o'clock it was not warm, but 20 8412 ing and after that it warmed up considerate In had very fatisfactory results, althoundy by hardwork a steady beating. The view from the top of the hills was very fine and extensive, depression to the most, The southern fortime of the I midence Mito. to the met, the met toward / Danwelle heastall to the WW and to then. E. &

-ast the blead me and Jacramento Mho and for away acres the Celorado in lingma. after turch in put up material and Then spent sun housing the field, in the plain to The it was impossible to get out inst bifore afterglow in The evening mus really loved egge aute got ognierel. Une foldfriches. Frances. I Sanger- omy with faint line. ang. 6. Bugdad, California. ales. 75) feet. 1919. Monanaged to get a fram out at 9.30 am and travelled to Bagdad sixty miles to the most. The next

me down into the very het and and Ountry - Bagdad brain, cutricky me of the hottest places in the thirted states. The orgetation is similar but spourser than in the country higher up, as at fifts. In arrived about 11, 15 am. had houch and stored on buys with the Chinaand stuck south the rating house

start & miles and a hart in and about 150 feet som show Bring ad italing The heat was herries and until er no in egalar demand. The resulto me fairly good, altho' alming all + The species had bun taken by in ellerchere greatered and Three or Jonespores of spiny in viny broker, sumples of funal frhich me collected, and smal who also much frequented by Certhystera. a stiff bruge blowing from the east in a measure allary the intensity of the heat, but The 3 his - a frat in of and in it was about all word and there was no Shade except buch as we are and by luying in wels in the greasund inshes affin o'clock menent and got more matrial of the zum desirable pregie taken carlei he had prepare with the Church, a my from once, and left at 10,40, 20 for Barston, where we united ut 1.30 Cm. The pull up not if the dep ussim er a hard me ni u suefle infine, as we had claim cars, but one line stretches in the whome, making up Thirty in rumates none late.

Bruvis Blackind. A small hucelin (allais what a tank Milden Pain at Saitte. Done In at Poff.

Aug 7, 1919 / Sureton, Cax. Celes. 2000 feet In me amakered it the Harry We no. & House" Casa def plesierto" and in had Callie sums breakfast about & use. no started If to the truth and unhed in the led shyolite hills much of the formy getter very little and there out in the selt blops buyond, successor a little more frease wind made up practically all the exitation on the hills and a consider proportion of that of the stopic. The day was faith hot, but not a Bagdafo ila by truy means. After touch us put up matrices and then spent a good three hours senting the vine bottom. orgitation and the bare sand areas in the flood place. It was all fairly with the fund and me up-1 a fortimally interesting, as they gilly a forther of Communa. The water of Moharo Baroton at This time, and,

There it is held buch by probabilitient in the une to bed, out of sand bags. the drift of the rime + weed as wicken considerable, as extruser une and brush burricades have brew stared en echelmo, apparently to protect cultivated land in the mostifuntly brde of the une. Willmondo, arrowup the orgetation along the flora plans lifte putting up stuff we retired carly, for an early rise. Stack wiches Helt. me in Mahan Kins Hangle. alden. Olive in chemier. White belled bushow, either indet was atter, in drew along wine though. ach throuted Hyeatcher (apparently) lan almy 16/1. Shribe. turnal. Aug. 8, 1919. En route Burstin California to Beatly, Werada. In many at 2.30 (IM, dressed and in our sleeper at 2.40, whenever went to bed agam. It was 7.00 then? fort up, mind me men deline take on The Jonopale a Vidente. Ulm trains

Consisted of about serve freight cars, a contrudture express, mail, laggage - worth car and the Intluman The country was very desolate, the mountains my rugged & the blats my lare wants Mefer. to the met had the most extrusing allung Jans un have uper seen. Cet aune in trucking a car in a & tiding our tish a find the track and it in again. The hundling of frught at iny regular top held up our train so that in reached thoshow, The place une me supposed to breakfast at 9.30, ut 1.001.m. This is in the lower course the amazon Ring, where there is quite a cittle with which come presumally, from the springs in aste. Meadows! There is with, rande frame und wurder trush. Cut Weath valley musting you are ent on a bare plan, 2000 but about alm tea-lead, where The number fange P. R. mining may to the refining plants bratis at The junction. From here on we ran tha much of miles on the amangera resent, which radually rises to the north, Handred withen

unst in the turning, and rune Mis, while to the M.G. is the yourse runge and due alead of his the Bulling Hells, in which Beatle is situated. WE reached scally fot me muit, supper all brung. our truck and trust anating us. The sunset was treautiful. Beatly, Myc Co., Nevada. Eles 3300 to 3400 Ofthe a splended nights sleep, which was partially taken under a Manket Film# 2 and a good breakfast, in struck out No.10 a short distance to the much of time Bullfrey Wills, unot There is a low mes a in the side of 4 Builly the amayona Kom, here a muce 10.30 am. horte, running to the Bullfrog Hills, 1tp 16 then are area of adde, to some extent Diap. bare, the stream bottom proper, which ale# 9 has a few attenments, and then the Crotophyko. Apr on the east to the Bare Mountains The Bull Frog Will and The Bare Mit Film#3 han no vigitation and are most 201. Partin ? funtasticully eroded and wurdly colned. alter Beatly; i.e. up! they Buc net east of The valley the braders out into Bully, Clasis bulley where there is considerable Uning Comming Comming Comming Stop 16 3.301 M. Surap. cultivation. Beatly itself is a try

with a past and probably little future. a mining from form which has seen the Zewith of its days. Fractically none A the minds heredbrilt are unhing one, and the town which were bristed thousands more has hardly a hundred people in it. Most of the bulldings are unoccupied, but fortunately the lettel is clean and fresh. Unwurch of as it netted for much males of the premisty naturna sex of auconia caerulipums. after buch in imbed on much the same region, getting more Curinia and some other interesting things. Hering the day for the machine which is to take us in the bleath valley trip. In have a very ford man a machine, but must have fires, and there in an getting from Lis angeles. Mugan fruid nothing

Phalacopes - white + black the back cap) some frey on Shoulders. From turning fielding in river in company with I Spitted Sandpiper. Ix ditto Inst turning) Night Hank. Two at dust Itilden. Two with the Then wahi bind

30 Beatly, Novada. Ufter a good breakfast we went out 1919. and morked in the rime bottom and on Film# 3 adjacent mesa flopes motheast of ud. 2 Beatly, formed Clasis balley, The results amaigraa Rim at me but fair. from me spot it The aman-Butty, great valley in scorped up in the net Enhing M about ten small fishes for Inder. The Stop 16. 11.00000. preture was taken unudestely Ausp. below that spot. Ufter luck we are alc. no with some interest, the arrival of the Fram from tires for the bleath balla trip, but they failed to arrive thicking Thomas wir much language, not of the partor "The no. variety. This means two days by ne Ale no they can get here, as there is no train Phrysies ma up to-morrow (Monday), after the On flat disappointment in went on to the southeast of the railroad track unfined Tilu# 3 no 3 have time in the bush in a sand bies from 4300 feet a silt flat, where I had the luch to in Bare in Bare get a single my striking atroplus. Interest the Bare Meters, mot, chang Beatly, and scrawbled and climbed to Bull for the cliffs of the rumment basalt, when Wills and Mustin broked up a flue and was fraguine 3.45 Pm. was still some distance off. The 16 styp sump point in reached was proushat in

460 feet in elisation, am 1300 Film # 3 fut along the form. The Hopes were mo 4. M.H. in flue my stup in places, love slides rear element, at about 55° augles in bare rocks, smetimes crumbly. The matrials und some silicified und stattered our elw. 4300 fut. the slopes. After dinner Mugan had practually no buch with the flash, altho' he fried it in The locality in I got the unique bleeticed during the day. Solitan Sandpiper Spotted One along Amargusa From River. Highthank. aug. 11, 1919 Deatty - Bull Frog Hills, Monda. ale # 21 after breakfast in worked in the flats What I south of Beatty, along the railwall commission and the grace There is much wills, with soline incrustration there and some sult grass, which yielded some Beally, Mrs. mothial. Ciftu lunch finge Itmy slepeo. ala. no gring to Physlite, and he ran us 22. 4 bato. almyline Fry Hills, at an cleration falmet Rim. CM.m.

Achards

3600 feet, from which in worked back about half way in his with greaseword. The hills are work like the lower thopse of Bare Mls. with greaseword and similar regetation In pressuring our trok a graf serie of Insara Covillar very layer and brantifully celored; at dush Morgan that tome bats along the anagras, a small Mystis with frayesh body and blackish membras. In hept from as specimens. In also received the cheering news that the trie order had been filled and they me bring thipped to night.

Green Herm. Om along Amayosa Rein Might Hanh. "
Hich & apparently frese-flying south at dush in V formation, moderately high-birds large.

aug. 12, 1919. Deally Herada.

Often brishfast in worked down the bide bed of the Comagers a and the side callisaum. I lato to just above the gryer surprisingly list. Offir limit in adjourned to the station, to wait for our train with the tires. It was due at 1.10 P.M., but

and in supplies for the trip, ford of the survey and their being about to the small, where his can uno. This done we proceed to get un supplies for the trip, ford of and therine. After dimen the rearranging and reparting of our outfit was in order, and this was some accompleted.

Might Hanh. Clue in ening, resting in street & tubing that flights after insects. Bolbed its head up and down when resting in ground.

Jambol's Quail. Witnesd town brunch of approx. me hundred.

aug. 13, 1919. Beatly, Monda to Art of Emissant

Rlint 3 Wash, Panament Mts, Keath fully

Gentivally

Inhings may respect at 6. or all and there in ment out to

ale no 24 the ranche and hundeavored to locate an

Cultivarian for for things running smoothly leaded our

Francisco provisions, is, gasoline and equipment

Mis my and finally at 11.00 and got started.

Co. In had a lamosted Chalmers, with a

2500 fut.

and in me car wine fifteen fallow of faceline in the our addition to sixtum pullaron our fautes. It only required a wint time to see that in me extremely fortunate in having such a fort muchantic or well as drive bes Ith. Celmond in mow through the Bull hing Wills, to the south of Physlite in full view of its runner to Cargo and deserted building, then are course was due mot acros the northwestern tection is the annifica herest, he aded directly In Boundary Carryon between The frapevine and Funeral Meter tection of the amayora I cause. In crossed the amanfrom these publica up to the summit of The Carryon at hlaylight oping, 4358 feet abouted for nearly our hour and had a livel to the sunha an typical of these where at the sure ty elination but there is much y a rank its short run- of the mall isting and fit a friend of fit a friend for and interthe stope to the most is stendily drivered into bleath talley and the road is not of the heart by dry means in Hopped

fremen on the my down the west of it at 2500 and 2250 feet, to make in a large unshi with welly channels warre in a white, trittle, will ternal -200 which Ill affermed trays is The "releath balle, Holly " me found a white period of aleolophus, which Heland is convinced is new I we Tytthetyle came into widence and remained so undif the bottom flats of Weath Valley in reached, where no peace und grows. They flew like fchistrenea me me hear Wole in the Ruch Spring at 2250 but in rounded a tun and tracked spread out home us the valley. It is a terrible picture, with it's low sureaucy halls in The bottom, its diatrical areas, of & and dunces, while The salt flats have an approxima appearance of sello II chey whitesh patche scattered my this read treach. The tordering note. are equally folidding francisco thousands of felt alone The walter, hower, steep and unprisoning. In unlest down the line slopes The heat dry, atthough it uns toture for and

36 Six PM moment down through The Death balley Butter, low wills in The East fine of the in ey, while trugmed it we entired the salt flat of the oulley to them at 190 fut them sealed perelon inches in the falt have and fish amoning munifico. The falt enework fround is hummery, in some passed meanly mit. Here in has a plague of lage horse-flies, he drive up the met side of the only, me sandy Mon areas, and stone slopes, in the salt fast gathering darkness, one a very that had, to the puntin with the work in threpipe will, where tea line, at fact thele, fort feelingabout gom. In had a good dinner 's enhed to midnight, with a under Showlight Spring. Simal corries at

aug 14, Salt well, fort of Congrant Wash, up 1919. Engrant Cany Wash and return to full Crub Millo. be une off at f. oo all. I had tolept but little during the night and was by no means fresh in the morning. The started anspiriously around the Cullisann base the long wash of temprant Comigrant where it is layely a grand slope, bush ab. but we had not gone for before we 1000 feet. fruid the read of was badly wash, constant rebuilding was necessary and even detours up the unshes t came to gruf. at the same time our water supply was structup, as one naght camp pluines had been a dry camp and our stock was some dans to a fallow or so, for men and machine. trually, at 2000 feet clientin, we struck and there failing to get where in works where and fill under there. Me started to jkele one about norm, found in could not get a good bed for the juck and then trested a while, suching some conductors with mixed with water and eating time council penapple. Mune of the

minds what to do - to keep on trying to get up the two thousand feet and sixtum miles to Congrant tpring, if necessary abandoning the iar and willing out, or return The ortuntion was serious, water had to be had for men car. The final decision ins to return to falt will, drain atteast Some file radiator water, fill it with salt water, sleep and make for tumace Cruck and frish water in the mining. muset back down to Salt mill and there to our horror it was empty-tome dry. The situation was getting dangemen in fact uns desperate. Duck, un drine, erns pretty near all in, Mugan was in bud shape, as he was suffering more for the want of water than the rest of us, while Twas day thing but cheerful a comportable, as my lips were badly swollen and my head not fully clear blick said falt Crick hells, and though the sixo'clock temperature of bleath balley in drove the eight miles to falt Creck hills, praying that some water for the radiation was there The water was there in me well. Me drained the radiator of semial gallow, felled with with from the will and prepared to go to behanth just a little. In worked oruselow in the will, found it was but little brashick

found it was usable. With thanksging in our hearts we laid down with Inflicioney of fair water to reach Furnace Creek Carche in the morning ! evening) Flying aug. 15. 1919 Salt Cruck holls to Furnace one Salt Cruke Eleng Cruck Ranch, hDeath balley. 26, Inyo Co., California. Crotophytus country. Betw. In anse about 5. 30 am, Magain feeling much better to day, while I felt Fult Cruk mllo a very proly, getting better after having furnace Crub Rauch, relieved my strunch of some undefects Death Valley lemme juice. Offer some breakfast we televal. I would for lay not the best way of getting 250 feet the car out of the sand where in spent below sea - the car out of the sand where in spent theright, and started in the road of Cent Furnace Creek Kauch. Me had to pull out of days sand, amund a hillsele ale # 2) and start up a long slope, clinebing But. shot send hundred feet, largely in hard ma. grantly slope. By using blankets and furnace Cruch brush he got out of the sand and there Ranch. started for turnam Crick at 7.30 all. In had tunal bud sports, but withing which meant work out of the machine, and it was about 9. 30 lohun we rolled into the vasis of Frenence Creek

Mels. In passed the old brax unh simal miles before reaching the Rauch, and transed much ringh, hammed from &, sult and brox merustred, just before reaching the Perch boras unho. Below us in the valley une the falt and brook flato and we were very glad to keep away from them, as They are dangermo at this time of year. The ranch franced are amed with cottomondo, intlosos, palmo dato a fan palm-fig, etc, ishile a whole ditch. ful of underful water runs by the and the corridor of the house is a water faw, which Cools humans weed their water supply for immediate consumption, which is kept in sheathed demythus. The Inperintendent Mr. Theurm, accorded us a cordial reception and en made ourselve at home in the ranch franceds, in the that the true. He told us much about the bray unho, the valley, its hagardo, unhi necessities and Tho non-corpore he has had to handle. His lonely life, the only white man on the ranch most of the time, to thoming

after term year of the unk and he leave in about a month. It is a freden for Esten in a hellish land, the country armed the bleath balley at its unst Do the best rise The really very high Range - The Funeral Mets. section Ulu post is a change man and the more managed to keep save in this place. Mugan shot a much of ducho down by the alfalfa and in had a grige in the enning. The sunset was underful May, shade reached 120°F. Willer Frity-odd in the barn yard Hight hand. Ulve at deeck. Pintail. Hochs in ranch in water spoto. Vires sp. In palm.

Clug. 16, Furnous Crub Rangle, Death Valley to 19,9. Hole-in-the-Roch Spring, Boundary Orle no Campu, Omargosa Range, Calibraia. 28 After a first night sleep in the 14th - bruse of the water faw, in the ranch alm, pring prich, in arm at 5: 00 AM. Cifter a spring prich, in arm at 5: 00 AM. Cifter a fund hoestow our hist at the ranch, we couch to the machine and ran down to the edge of the talt flat, inshif

42 There In some time there up along the ditch supplying the much with erring no.6. at afen water. My hand some success, Panami Range we with I me interesting captures. Me discound in had a broken rear spring Cruck Runch corral. which heich town of welder and replaced. With brinch in packed on 20.7 outfit, ayou the heat was not as entener alfalfa as usual and the they was onnewhat feld of meant, and started In Doundary funder Cruck Canyon. The run from turnaced Creek Kunch. Rusch to Hole in the Rock Spring, looking N.W. Sanday Canyon took about fru 20.8 hours, allowing the engure to cost a Jurnace murber of times, making camp there Cruk at 7.15 10m. We slept out and had Rouch Corling a good cool night. Amark Funeral no, 9. Fult flat of turner O Cruck Rauch Enting town & l'avarant Range.

aug. 17, 1919. He in the Rock spring, Soundary ale no. 19 Carryon, amagersa / Conge to camp with of Charleston Plate, Horada Wollinking anagora Manual about Six WM. had Lesent in ford bushast, shid some collecting betw. tan's in the vicinity, then at f. 15 we started buntes Kungh buch to cally arriving at Mayles hit Elw. 2510 fig. 4 pring ut 10.08 and Builly 11.00 ast. Ofthe others a lanch, uddin Film # 3 no.10 provisiones and fitting on mail Linking Feat trip. In havilled by way Weath valley of Carrara, Fairbanko Rauch the from place of Richs, camping at a point on the in the Ruch Camp, Thus begas and with of Charleston Tomudan lead men the old station of Charleston Carryon and at an elevation of 3000 feet. The road was fair, but with many love In the carrying at point of Ruches you pull up through about too miles funsh, fritunatily small stones. Runn (White Miched) New Beatly!
Hawk (P.W. Furnison) Oue: "

noth of Charleston Peak to camp at 8000 feet in her Carryon, spring Met aug. 18, 1949. ale ous 30 his language Jonny Mile he left our camp at 7. 20 dell, after a New. class sunse which for color was underyour fut. ful. hu travelled ina hudian spring Fice youra a settlement with brankful tree ala nosi. and a bountiful unter tupply term tem mules east of Indian opings 2 bato. her Canyon, in Furned truth unst, Ceaning the main Beatty - harbegas road at mughelo Med. elw. 3000 fut elevation, and Hartrel up good fut the long through mile grade to Caught the heavy finder in her Carryon. in calm. It is a strady up hill, first across the main wish of the valley, their up through greasured to the guera (Which begin about 3500 and last to about 6500 feet. The first pringer appear appear about 6000 feet, in with por joshua trees, while the pines came in on the campon bottom at about your heet. Ut for fut a few baleau fres are endent m finally got sellled in the old saw mill buildings at 8000 peet and after ameiderable exploring from The curity water supply, while putting up striff in the evening lung

und Mythis came in and une Captured. Clarkes cause.

Alex Annice type. One at jove feet.

Appar. Pinyin mys Surral at 6000 feet.

I par. Tissym trys firmal at 6000 feet. li pinn, prinjer - joshua trees Christon Insail. One covery at 3000 feet Inear morning camp. Mining blove. Final at forteet. Aug 19, 1919. Lee Caryon, 8000 feet, Spring Mountain Film # 4 /revada. View of high m had a cool night so cool that we prote to shivered under three thicknesses of enst f. blankets, sleeping indones in an Ald camp in building, oroned by a cattle company. hu Canyon, Cefter a uneder ful break fast no frist Iming Mits. proceeded to open up and clean out Um. 16 strp. the water supply, quite a job as we had to pack twenty pallens down to the shack where we were brukeing. The remainder of the morning in worked in the carryon alm the lumber camp other things. Ofthe level Morgan unhed up to 010000 feet and Immles What the camp and for some distance down the congres. Ked shafted Hulen. One cu canyon,

Aug 21, Les Carryon, 200 to 6000 feet Spring Moto. 1919. Nevada. I me had a cool night, with a high, strade The wind, which sought out the open chinks in the folds of your blankets. In had a sulepower wind-break of pinen branches and the ora true muchine to help, but it was a cold let, bu bunch which arose that before 6, wall Carryn found to brild a fire and get warm. after Mb, WWI breakfast in started down the grade Govo fut, and made a new camp surral miles down, at lovo feet elevation. at the upper edge of the free quecal police true belt and where a few pinar and puriper still remained. We unked all day hand, largely for aglasthmax and final trualler dectreeds, which une greatly desired lun camp was a chufritable one, under a prima and beds for us with mato f soft brush. Blushing. Simul at 6 over feet - not agun Blushing Pinn Jan Mumbus at 7200. Clarko Craw. " down to about born feet.

48 aug. 22. Les Canyon, Spring Moto, Hundan 6000 to 1919. toosfut. Vilut 4 Me spent a underfully comfortable night, no. 5. thanks to the brush matthesoed redo Commen fixed up by bluck. It was not very cost. at upper and I awahened only once a time. Yuna Camp, Ciffin a good breakfast en started up whing s to and mind down the carryon at about high spring 4000 feet clevation, making a camp at mits. about the mouth of the carry on and ns. 6. one Thomoand feet up the detretal June. slopes of the mountains from the has Comme Vegno Valley bottom. H was griete warm no. 7. and in wished hard, getting quite a Listing few Capustotio, as will as many The interesting things, altho very thing Yucca Courp Code I Came in forty. Howas extremely warm at rime and in put up making Thup Mita and writed for a little costing-off. im Las brega Valley. The thy, home, became or cast and This permetted us to unde with more confort. he spread on bedo under tel yuras and freasured. Shrikes. Lev. at 4000 fort camp.

aug. 23, Lu Canyon, Spring Mbs., 4000 feet cleaning ale no 33. The night was doughtable and we Who fot up about 6 and. The con magneto ash meadows needed a little adjustment and it (Fairbanks was stantly after right where en Runch) mind down the grade, be unhed MycCa, for a few minutes at 31 vo feet Aw. I clustin and again at the "bud lands" in the lake brown (playa) til at 3 or fut in the Lus bryas Valley. The day was very warm and we mond as rapidly as pros. He to hedie springs, where in replemented our water rested in the shade and me treated by the lady at the rauch to first with and butternish Money on in limely in the by wash man Point of Rocks, and Then pushed on about soundy miles to ash Menders We had a head hot und, which made viding amything but comfort. able. In inher at ash Meadow for me our home and then pulled Perit a mile or so on the way to Beatty, where in camped and had a splended denner. Lash Bunding. A numbrice liding my the superficial dirt. If the lunch a ford thank a bath and clean cother made us ful like human beings again, and no must then able to do po justice to the under ful whichen and naturally set before too. It timed in the at the fine too. Or timed in the a top of the human they in the at the human they in a comfortable they at

Puitail. One Alich at Wish Meaders.
Mining blue. Mumber " " "

aug. 25, 1919. Bratly Nevada to en route to dis Augeles
after the buxury for night in a good Cal
bed on arose which 7. 15 had breakfast
packed on trunk a other laggage, telled
our bills, bid good he to our very good
friends Jenga freeder I, the hotel
bruper of deputy should, and blick Cyle
und our good companion and driver. I've
had brown beaths to his Augeles but
how for one are get remains to be
seen as there is a railrad strike
in his Chrysles and or and Arise

of me from come elever at hudles, get in some respectables time in the morning, The Kup down from Beatty took us one from and to which we have began to feel a certain amount of attack. ment and association, Carrara Death balley Junction, Throhome / Comptobe remembered for its eats, Decopa and Situr Lake. The vali-colored mits. had the same appeal they made when eroded diet hill me just as wierd. - Kilden. One heard at Decopa and hopping about the POP. I truck inflow at her purition. This hid Autured and his me teg as a · · mmal bird ...

Ludlow, Cal. to Lo angeles, Cal. Aug sleep in the praceful atmosphere therebuse where me star sleeper had Voen stranded since 10.2019M, when They put us no the belated Phocinghis angeles trains. 14mo for in could tie-up in and not leave in pues but when ar reached Baroton in found that was about as far as train had deserted three engines There, and nothing was morning. after breakfast in prospected and finally in got a Ford which would take us to Fan Bernardino at a figure net so asking. In Harted at 9. orlund, from and a drive and at 1. 30 mme in Lan Bernardins, on righty mile anny, The ride Through the Cayon Pass was most interesting and The Jan Bernardino Vulley spring below me like a map at fair Burnardino in fot time timek from the railroad officials former no me them in did, in fact less about the Burston situal. by a kind theated Italian-and

Antonio Soccio ly name who was fing to hor Origileo in his six ighinder Buick be to the hos for Congeleo in just a little one two homes, one sixty mides one small for long distructed through splendid orchard brings, lemons and directly orchard frapes, while in the buchground of grapes, while in the buchground into the tomas fun Jaholo. Not a wheel was stirring on any of the raidrands, but has a prople. In one griebly westelled in the alexandria, for der mail

aug 27. 1919. Les Augeles, California

The the morning has engaged with

the dentist, barter, shopping and piving

mail same attention. In the afternoon

I hunted up the Roches, had dinner

with them and we raw to Ling Beach

and bush.

Clug. 28, 1919. his langeles to Frest 14 me, San Berale no. 34 In lift to Augeles at 9.15 all.
Rutteniale headed for Frest Home in Mill ale no 35 , 36 Cruck Canyon of the Fan Bernand. but - tourise Mito, at an elisation of 5200 feet. Boto: Will In travelled via the balley Boules about 1300 through Puente and Walnut, excepts feet. On Polanded straight for Collen and Redlands. In got at splendid bunch at a Cafetania at Redland leaving there about 12.30 P.M. From Redlands ur ran na Mentine, Then up into the mountains, fradually climbing and climbing. In passed through the chapural tilt and intried he low part of the pure belt just life in reached the mest Home grands. Me une som installed in a confortable trut house and their dug out for three homes up the carry on, These in met a Mr. Yeager, who has a considerable intrust in natural history, and who is agreeinted with Fall - Veryes. Om car is a Hudson six and our chaffen- Eddie - a breek. Junes of regames type. Common at The of Home Long crested Jay. Fireal at the of theme.

and in the crumbly muturial which Hides easily under foot. This Hope was

bad on home and we me flad where

it dropped slightly into the valley of Vina Creik, a beautiful noch with under ful sugar pine and incense cedars. Me unhed have a short time, Then but the slipe up the valley, unding though und timber, now heavy chapanal of Cenerapers, the trail often hardly irrible. Let the upper part of Verran Creek on climbed another hand slope, up and up and up, crossing one a small divide and dropping into the valley of High Creek, which me good feet high. He in lunched, fed runtied the horse, and at me o'clock pushed on The climb from here was steady and Stup, into the Hudamian Pinces tree, Some in ended see torning right on us the white summet of frayback, and as ar chimbrel and then rested the horses the timbre became themes and more scraggly, and finally in mothing but protrate malo of limbur pine betw. wo and the summent. It was about boo feet to the summent, one large stones and gravel stides, while the horse une feeling the altitude

limber pines and unt no ourseless. The top is about 11400 feet. The view is unduful. To the south the fan facinto range seems but a step away, while buyond are the Cuyamaca range and in the dim distance The fan / Edroman. range in home California do the east in both our the boundless expanse of the Colorado blesent, with the railing extending out into it as a thread. Do the north stretches the main put. of the tan Dermanderis range, with Funtalina bally under us and more removed is the expanse of Big Bear have while in the distance thetches the Mohan. To the most Cucamonga and Baldy peaks in the tan fabriel range time up mearly to du level. It was quite cert, and as it was 3.20 1.M. in Harted down. Mushled much of the unst blopes, both as a change and to ease up the unh of the huses. The late afternoon light effects une beautiful in the valley Alivian Cruck and all the way into mest Home him guit tied when we arrived at 7.15 19.M. - Mr. Geager came down and in had about an About's chat in the wring ...

Red shafted Heiher. Munerous below 7000 feet. Innohied (negative type) all the way up to about 11000 ft. Ing Spanner. Olive an summit ball. Spanner Hawk. Olive at al. 9500 ft. Rohies. At 9000 ft.

Aug 30, All Frest Home to Big Bear Davin, San ale no Meft Proot Home at 9 10 and Image Harriso for the Big Bear Lake country. Metops Rough mile find worked my profitably for about of Sim Bin Millian home a destance of about four Cal. wills down the read from Frest Home Neve or fot Insura from the fish where the Big Bear rough hancker off, there up to the control in that hord a though

house of more until eve endel lean the control, so we worked guite a let, Then at lined. Here I had a sund dental accident for the trip, much to my disgust. In left the control, the first can at 2.00. The chief up, across and down into the fauta and valley is me to be remember.

The grade is fine and some of the fures after feet

finn your wheels hair raining. Me rea the Santa link control, down in the & Sunta lina / Cion, at 3. 20, fine munt ahead of time and time fined accordingly. In left There, when per mitted to do so, at 3.30, for a stretch of far more steady grunding climb which free up well on for feet, but in which, for some reason they have placed no controlo. as many as nine loops below you can be seen at me time, while the climb is steady. I'me cans where a have a hard time sting There. Our Hudow did my well, as us boiled her but once. The run down hill to Bear Kake is rapid, though rather open pine frust country, with little grain and in appearance not particularly attractive to us. me Hopped at Big Bear Dann and fot surral romes in one of their ledge comfortable clean and new. Shorty after dark a steady driggle came down and untimed will into the right

Andubris Warther. Commen about Big Beardann Innothinds (injugues) fundeveral places on the way up. Aug 31, 1919. By Bear Lake Duron to Victorille, California. alc. no a spit of rain. In left The Danne atalnet Trog. By Bian 8. 50 am, Frankling via Baldin Lake, habe Jan Cactus Flat Irhusmis Ranch to Cushen-bury Ranch. The ride down The two grades on the northern side of the ali no. 38-39 Frys. In Burnardenes is a most interesting Cushwhay me, But a thort distance below The Runch, Aup of the upper grade is Cartus Hat, She Benealie and approximatily livel area with buts. municiono joshua theis, The slipes about ale no. Juniper + pine. De maked There and no stope Julipines at Cushinting Ranch ishis is practically at the bottom of The grade ditto while a heavy worms fathered in the montains below no. In left Cushenhong Ranch, which is just blow The upper ways of the freaserord, just in frince to wise all but a sprinkle of the storm. In transled by way of Box & Spring, Box S' Knowh theadman's Point to Withmille, while tehind us The country was being drewhed,

ince my lain truis en the truth thope of the last live the wind us the last print the with in the with in the wind as the land for much is welling at the land the last the till, inting at the thank the the last the the cating at the thank the the

Thrine. Une man Herpina.

Sept. 2, 1919. Sun Bernardino, Cajim Canyon, Corma ale no. 50 formono, Cali shina.

Rallisvaka littu breakfanting at the Harvey House Devore, Sun ore wit Saw Bernardino about 8, 15 am, Bernardino principal of the Cajim frades about

Co, Cal froise wile to neder berore where we alle no 50 climbred and the dusty hills (wom an bridge the bound the beauty while the Bernard Horn and cilled a cattlemake what in Co, to be some of the place of the sunger could production spot examined. He can willy production spot examined. He

between E St. mi and Redeased. This proved aimst . no inine, and as en une jetting pretty fired freeze. duction, cultivated value, trasher California, in otrecia st. I south west Frank the Kirmande und Corone regim. We reserved Kurrede and pussed on trong Corna, which we reached intrans teems me timely post for work. From Cornea in friend unthered formed there and towerer finding one getter grows with stope i few mile vertrede of Corna which decupied us on a ter minute. be wached tomma ist to 27 th and une som quartied at the Ket lavin clean, neat und with a find talle

hip! 3,194 Pomma to his angeles, Cal.

Me left Pomma at 8.15 am imhing
mee in the Fact Puents Wills and mee
in the Sam fabried Wash, with little
result in either case. Moreneled
his Congeles at 10.45 am: Mogan left
at 10.15 PM. In Ame Pine, while I had
to stay our for the dentist.

Stipt 4, 1919

his angeles. hentist Litters, Shipping parhage hift at 10.15 PM in sleeper to Manie bround to Some Perio

Sept 5, Line Pine, California to home Pine Canyon 1919. eles. 8300 feet, met Whitney section of Sterra Hundas. to get off my sleeper at Mohave at 2.45. for the branch road (Owenys) train to start, which was to take me to done Pine. I utilized some of the time in that wait they considerately allowed is to get in the couches of un train and curl up - this about 4.15. It was just showing the first ray of daylight when in left. Whan and us had a beautiful sunrise to great us between there and Jearles the junction where the branch wind runs un to Irona, the great potach brality. Large larse flow apparently for the whom blesent, and you wind for and through them for some distance

Churis already at the Shows of Clevens

Lake before at wind of the trailroad

gives you a find new of the Sierran front to the mot of the bally, dominate by Mt. Whitney and the line back reached have line Sta. in time, at 9.20 UM, and me som on to the tom, about a mile and a halfanay Mugaw was there awaiting me and to had practically completed in arrangements for the net. Mitney trip. Who a summed breakfast, and a ver and an attempt at a sleep, and then a much, in made a start in 1.00 Mr. Clivas, a Station who has lind we since the 80's and who is throngs acquainted with the country, be had too suddle horses, a saddle mule > apach mule. I rode the saddle mule the others the horses. The road led due west through the ignemo alaka Hills, Throw generally unding along the side of the Sumbling Line Pine Crub, which seems som pullar, a limpid munitain stream bridge by freen trues, with tage but u & Wills in steadily ascended the long but my gradual outrosol slopes of

the Sierras these distance but nothing like the detrital thopes or allunal fans of the desert mountains in kind to will. When in hit the mountains themselves it was right at it at once clienting a steep trail, winding, twitch backing and of the aminals. In omital up though the pinen and jumper belt the pine belt and wito the firs, following up the tumbling home line breek. At this feet our camped for the wight among five and pino, at the with a beautiful cascade. Here supper was ford and the large five in had most wilcome.

Sept. 6. 1919. Line Pine Canyon Sierra Awadas, California, eles. 8300 to 10800 feet. he me withe more at about 8. 10 all, stradie 20.10. Meadow at briching a skeep up-grade, switch-buck 10800 feet. and fristing, out of the Canadian pine File # 6 and for and cuts the Hudoweau mistel по.1. pure mest. At 10000 m passed a beautif nanty mountain tare, know as tong Koney Pine Luke, down to which at the Jelu # 6 is. 2. with facing clope carries the above bring frinter line carditions dam to that france Film.#6 elevation. Jum that point in continued Jame.

up elypes a good thousand feet more and then dropped down into the have line Meadons, ut 10800 feet, an extrusion meadony area with a small bake. Here we small camp, withed in that vicinity during the morning and after tunch mut down trond have there Lake. Mr. Olivas went ahead with the And line and started fishing, while in unhed in the above timber line to the lake Mr. Ulivas had me tent I and Mingan get too more, these tasking fine at donner. In returned to our prepared for a cold night, in which in une not dessappointed.

Clarke Crow. Obne at Lone Pine Rake Hushy Grouse. Obne flying me at about Good feet.

Sept. 7, 1919 Rome Pine Carryon, 10800 feet, to west plope Film # 61 of Mt Whitney, Sicro Newsdaw, and no. 4, 5.6, return 1, 6, 9010. The first glow of day should on the And of peaks are no as a pinhish sufficient, home Pine Canyon, Whitney very beautiful to see, that the cold Pass to man so principal that excessingled Mutury

to Hide back into our trute and blanket The wind had died down during the night, but the cold was considerable. In left the camp, in our horses at 7.30, and they took us up past a lake smal hundred feet above us, then on up and up to a higher, deep blue take, far alon timber line at an elevation of 11780 feet. At het a feet about this take in left our houses in a meadow and stalteon fort for Whitney Pars. This is a steady up clint to 13335 feet, very steep, switch bucking and Morgan must ahead, as he planned to which the funnit of Met Michney (14501 put) and return by evening, while four as our und and time untel conveniently take us. In made the slope to the pass in about an hour and a half found the trail completely pone for a stretch at the summit and wheel away it to get to the mot side. There we unded along the Mt Milary trail worthup on June takes and the upper reaches Kirn Rim. at 12.20 M. in Harted

back, when about toro miles month of the Pass and almost due mot of het, Muer. The mind had been high, but it had gotten much colder and we though it hot to get deren. We reached the meadows from which we started at 2. 20 1.M. m withed with avenily the Morgan coming down the trail, then we started buch to camp leader on horse. In reached there about the Mugan getting in about 20 muntes Jahr. In could see from the Pass Feles cope lead and many ranges off to the east of the Panaminto. Mayan buf reached the summent of met. Whitney and also collected a new pluties. a beary fale was bling trund ining and more thankful for an Fruit.

hlippe. Une at 11500 feet in Langling Leursticks. Ferral at 11700 feet to. Frank Murgan Murgan Elischadees - At 11500 feet.

Sipt. 8, 1919. Huntres Camp, 10 For feet, Love Pine Film no I Canyon, Mt. Whitney trail to Love Pine no.1. Cal, Falls at Me had a bad night, not so cold but we F300 fort mearly blew away. The trust swayed a no. 2. bushled but held down. In arose In had a bad night, not so cold but we Lishing up thirthy after day light and it was very him Pine som after eight when we started from about down the Hail muched at \$300 feet Too fut. and again about 7500 fut, felling thing but. Civitallix thalassina. Me les an whitney. horses a good point of the way on a come protontoide of the mountains and suched how Pine at 4. 00 1.M. Me in the uning repached our buffage. Sept. 9, 1919 home line to Bishop, California. After a ford breakfast en left home line at 9. 30 am, laying our at lucuyo until about 10. or all, when the narrow-gauge left unth brund. The marrow-fange strolls along at about turnty-five miles are hour, a mixed " fram, which should care and wads freight at all the stations. From

home Pine with nearly to Raws which is the Hatin at which one leaves the train to go about from miles to the west

to Bushop, is very my dusty and the ride an extremely deity me. The Anthern portion thous mire menustation Atallo - Irdas than to the with, but the typical sage dust around Kearsage - Junich to remissionet of withen Minda. about the dans a 1 3 to hop the valley is none intrusinely cultivated water une abundant + preps apprintly better than in the centre about home line Independence and Big Time, but they all are well watered and productive regions with much alfalfa and gratiful thade. Bushup is grute a town and do leading little, the Istalia, is built around a patio, an old hulding but modernized and emportable. after lunch on unhed off to the south semas miles, bring from a lift by surral & ladies in a machine Uncultivated land was very scarce and a high wind made collecting my difficult be had time truces, but not a great deal. In the enning we arranged on a day trip to man into the higher pouls of the White Mito, to the east of the Brune " Stucklind I'm flishe mean Broken Brune " Jun int fulde Night Buch Diso man Brokers

a small frek, apparently cared freke. In little port at Invelie.

Sept. 10, 1919. / wotup to top of Sitom Canyon Frail, White Film#7 Mto, myo Co, California. Sierra Mundes from 8300 feet sum and left at 7.30 in a machine, in white suto. which took us seems the valley, past toking across Omis bally. Lans, up the Hopes of the White Mite, no. 4. and up Sitore Carryon to 6000 feet Cleration. Here saddle horses une Emerina at 8300 feet in white awaiting us, The time portion of the Campu has my high wall, typical White Mite voliance bills, low down the range Peak from in white rute. being orlevine, higher thales and line-Homes. The trail was an excellent mea few places and fairly theep in a few others. At 1700 feet in withred the punyon Surra Mondas in blite will (Hoge tail pin belt - There is about no jumper and This continued to one 9500 feet. There was no sugar or bull pine, the Canade zone appareatly being represented by mountain makog any - a small area of low aspen. The fox-tail pine Asicras fran 830 feet und in patches as low as 9000 feet, while suge corred most of the higher Ithe Caryonuntimbered areas going completily lashing dans across the funnit of the pass at

10400 feet, The highest print me reached was a pinnacle on 10700 feet, where ne ate me tunch in the pures. These une on trattered patches, numbers ndure. Im this point what! Aplunded views of White Mita. Peak (un 1400 feet) to the mith, also to the untheast the tome but pronunced Cabinea - Blanco Peaks, the latter grute whete, the frame apparently volcanice dark. Me unhed at \$100 and 9500 feet in the way up and the way down. We left the machine at 8. to, reached the top at 1.00 /M, left the top at 2.30 and reached the muchine at 5.15. Our house une good, although not fast, and altigether views of the Tierras une wonderful. Pipilomas. Um at same. Pipilomas. Chichadus. at 9500 feet. 83 00 feet to summent Clarks Crow Marsh Hand! Near Bishop, one wit

Brokep, Roch Crech Carryon to Hauthones, 1919. Mineral Co, Nanda. be me up at 6.00 all and thirthey after sum left in a machine which And to take us up into tra pines in the liena side of the valley, motherest of Bishop. We some struck the volcance table land which scripces a fork prefin of the morthern but. Allmis halley, Then climbed it, droppede ann it into me of the deeply ended Crick - which we followed up for some miles, alongside of a traveling stream of fine water from the Vierras. at about think eight miles from Brotop, and at an clink A 7280 feet in intered some laye sugar pine, while aspen pew along The oheam, altho' sage occupied most of the level court Here we worked for nearly are home, There &. refuned to Bushop our chauffundring tike mad on the way buch. There me futhered up our true, hustled on to Luces Station in The warmer- Junger, had a and bunch and then united for our fraise, which arrived and left meanly an home Ente From Lano the railroad follow up a dry wish, tributary to Cluma Ring as far as Benton, Then swings to the ME and clouds upward, with thoup curro and a Annual to mt Mondformery station at

breviews apparently the males are done and the Jeneales meanly done membed down to the Lake, comming about fine del terene and from sit men of full france in each toly tack of the beach, The results near the beach more most inforestery and med on found to haden none too much time to get back The from miles to hand home of in instead any bunch. morned the distance in quick from yours fruit carrying the defined a mountied Langeloptice in The fring neads in which we found circle about a half to a greater of as mile from forms. The best find protally uns a small series of heretimence. sind. In the engine promade serval excursions with the black-lump after Lacycliptura, Mugan get 19, 1-get 17. Unch- tipped, no black head . Minter almit Wallen Lake.

Sept. 13, Hawthorne - Massuk Range, Mineral Co, 1919. We work up shortly after six, and Nevada. Film#8 after an early breakfast in left about me I hothing from in a machine, to go to the stronger from highest point reachable by suits in

film#8 The Wassule Range. It was quite cool and in both une in suratus until will march Ruge after nine o'clock. From Hunshine it from mes Hauthone was a steady climb, to hushy Boy (6200 40.3 (eit) a dismanthed mining camp, to true. walker (7500 fuit) an enu more desolate but Lake from same pinet smaller ci-direct camp, to the actual no 4. Tacycloptina crossing of the range (8000 feet). This, as buch the country practically down to huchy Boy, is in the juniper - pringer region, produce ale no. 54 almost nothing, as usual in that region? Juste The view to the mest, homen, thorning the Between very distant our capped Juerras, was Harther & Lucky Boy. whileful. me did not und long at of massule the highest place, but dropped down to Runge Summit then to huchy Bry, getting must though but little, at the latter. In wie back Muneral Co. Nw. Celw. 5500 in Hanthorne about elener, and then we spent until buch time doing some circle who was from in an area whad not comed, the results being almost nothing. after buch I struck not and spent Three hours inshing in the area which had been so productive, relatively, yestriday afternoon, while Mague had the marking take him down to the lake shoe and bring him back, where he worked along the My trackes and dunes for automia, but he returned without any. Cefter

dach or took the flash-lamps and went J. R. 18. Shortly after cleans the truck Hage left for Thome, in the railroad, and mune about, arriving at the RR. about 11.50 pm. Clark's Craw. Munter in Masouk Range down to your feet (pingen). Fe much the remain of me with ings + toil feather, but homes the und of a hawh. Brewis Blacklind. At Lucky Boy. Levis Mordpular Que at Hauthouse lit in pome line pole and made a circle into The air after something con buch to the pole.

Magpie, (line at Luchy Bry.

Wir. Numero made a cucle noto the air after something connerg

Sept. 14,

Thome, Mind Hagen and hordock, Awada. 1919. Me fried the train was about un how late, and in long about in the dim illumination of the single oil lamp in the waiting room. It was cold out done, so much to that our tweather with costs our them, me were too comfortable. It was 1.50 when wer

Frain finally pulled out of Thome, bound for Halew and un dozel off and in until 5.00 Mell, when the latenstin stopped at Nagew. There it was quite col and and a crip of coffee when we arrived. It was nearly seven before we would get a full breakfast, and after that in hours the tothe N. I frain clastical left in the dot fre 10.20 all and it arrived at Kirrlich at 12.10 1.M. Uhr Parraw in the bottom of the Caron tink the country is preferly bere above, brunning with claimps of greaseund (Saredates) on the type of the precedo-denses. After petting very competably installed at the "Big Meadow Note of the having a my satesfactory luck, us left in a machine for the afternoon unhing on sandy soil with trush, frailly soil with brush and granthe till bridering the Humboldt Valley on the most here and me am alfalfa fields. The results were for bitter than in had expected and in Extended the range of Werdmenia puch and Report by me captures. after having to little sleep the night before in meade and

early turn in at suice. Burraine Out Lorden. Suma at Limberte. Lordock to melay, Nevada. Sept. 15, 1919. In une up at 7.00, after a wonderful melaying nights rest to make up for our shortage melaying of the night before. After breakfast of the night before. After breakfast in set out in first in the road paralleling the railroad to the south west, foring out a mile to a mule and a half, and unhing in native brush, short in wheat stubble. In the barer spots Athe grasslands we had the good Intune to breate sural colonies of Metator nevadensis. In une back at the hotel by 11.15, packed up and left about 12.30 for malay, lunching in the diver in the train. arriving at milay we were soon installed in the little railread hotel and them visited the postoffice to get invacane. ulated maif tahut 2.30 me shouch out into the bush north of the form, finding it heavy, largely Sarrobatus, and and adobe in certain suchins and

love sand in others. The best catch was the swidge of the range of

Merotimena hay denie relegament me spent The uning putting up material getting dope in the accomodations in in the country ahead and hansportage to morning up into the mountains here Burning alid. A number at horelish

9. Sulay to Carlin, Nevada. after breakfast we decided to start on ale no 56 Scelopmus fort for the stopes of the Star Peak Range River Korps to the south, as in had no cucess in tanyon, endearing to get a machine, but by good Hu Prate Runge, Hum fortune in incumtived a man with brillet Co. a machine who took us up the three Aunda miles of slope to the actual lame slopes, at the winter a mile or so up Prince " They Elev. 5500 fect. Rujal Carryon, to an elevation fapprox. 6200 feet. Finn this print Mayan clinks the slopes to the east up to the top ruly craps, at 8000 feet, finding almost nothing In the meantime I worked on the stopes to the west of the Cary w, up to about 6700 feet. Fighther instarted down the canyon at 11.30, collected a fine series of Circlettix Corlinames on the outie stopes, and then drow steadily for from in firt. Mugan was tired from his clink

and I had a laure heef from a nail

in my this musched hulay at

1.35 PM., recheched a trunk, packed our bags and got as the train leaving at 1.55, in all some very real hum. he had bunch a dinner in the trains, which is left at 7.05 at Carlin, Minda. The railroad listel being full on got a room with two bids in the little hotel "Elund". Mappie. Prince Royal Caryon (one) freat Blue Werm. Une man Palis ade.

Sept. 17.1919. Carlin, Novada to Wello, Nevada. Ufter breakfast at the railroad eating house following a wonderful nighted Hup in a most comfortable bed, we struck out to the south of the town, across meadows of the valley, to the low, rounded hills in the swith. The were largely corned with sage, and like the valley flat were very emproductive. after buch we tried the hills with of the city, with another lot of meadow, no more successful be han supper at the railroad &. enting house and left at 7.25/m. for Wells, arriving at 10.40, or twenty fin minute late. What grute a chase for romes, the two best places being fall. Me finally got in a rooming house which looked clean.

Brunis Blackbird. By hundreds about n near cattle. Tage Thrusher. One in sage bush in hills.

Magpies. Numerous at Carlin. Turkey Bryzard Two "

Sept. 18,1919. Jullo, Celho. C., Hovada after a good breakfast at a Chine restaurant in started of southernst of town. It was wident that the Ruly Range was too distant or us to get to it, and up any distance, in the Kine und amilable to finish the Krip. They Inous up above the love hills between Them + Wills, grist craffy, with clouds on their nighest turnits. Mu unhel un the gradual sage corned slopes leading to the forthells, and to the top of the reaser forthills, then back to mello. Probably our best collecting of the whole day was about the village

"dung" in the edge of town after buch in suring If to the west, inthe meets with springs which fire the town its warmed to the "dung", where we picked up some more desirable things. It had to wait until

10.15 1 M to get to Montello, our next stop, where we arrived at 12.25 am and hotel, to which in had wired for reserved.
Thalarepe the small species with us helf in much frimming about in a prod in the meaden.
Brunis Blackbird. Common.
Mappies Municipal.
Northed Ranks. Sunal flocks.

Sipt 19. 419. Montello, Norda to Ogden, Utal. ale no if after breakfast we started of working Wha! to the unthroad of the Mintello state Montelle, and the trull the clustical Celles Co., about it, and low brush and a place, Hes. 45 or feet extrading frie miles in so to low month aires, and broken unly by a few my shallow washes and a Ind sundy rice. Mumbed for from homes, with rather pow results, after buch in boarded the Pacific plinited at 1.25 PM. direct for algden. The greater part of the falt Like blesent between the Munda line and the Lake itself is bare adobe, burning more and more incrustred with saline matrial as The take is meaned. The mirages urre muduful and meach side as well as believed the frain. The

Lake itself has much spence wash in belt up in its truface. Me reached and une at 5.30 PM. (Pairfu diene) and une some installed in confortable, though muchat autiquated greaters at the 'Reef Atte "

Raines. Size not communica. Munerone. un Sall Lake hlesent about lake.

Huned Lands. Muncher at Montilla.

Groto. Cost. Ferral in prind at water

I tank in Fall Lake Desert.

Sept. 20, 1919. Alger Carry of Sunset, man Agden, Utah. "Rud" after breakfast our forh a our at the first which took us out close to the lower super of the Walatele Pennes, and from which point we willed about three miles must of it up adden Canyon, to a point this the along thlow's favniell' It was my cold, with a liting wind coming down the Earlyng, The mountains tomes about his, The carryon being rather nearrow, with a splinded mountain stream at the tottom. It was cost for appear and it was well after muce o clock ence we france much brush for me a Thousand feet alm The conveyor bed, while Themosthe friend. Hope to hat him sprowhled me there to the ranger ded, he inhed up almy 11x hour died feet on the south foring thepe, fetting owner intrusting mater ist, Then willed treb all The inny to me hotel, just missing wear. after level in tot The intumber can for falt Lake City and fit of turn miles ent, at a little place called Surset, a Here en unhed a little on an how and had splinded success in dry mado, strille and partures a high wind was blowing and they ommen speces made the with folling the scarcer species that much more difficult. he we buch in aghee thathy after fir and spent the evening pulling up material

Jeft 22. Con rost.

Rept 23 animal Chicago 11. 30 MM.
Left Chicago 12.30 PM in Brindway him

Syst 24 armind Us. Phila. at 7.54 am.

July 31, 1921. heft Phila. at 1, 16 P.M. in Penna. Limited for Chicago. Betwo. Untrolor & Bryn Main raw though a temps down pour. The day had been extremely hat - this matrially cooled things off, In reached Pittoling on

Buy 1,981. arrived in Chicago at 9.00 am. after a handly cold night in the sleeper. I had the blanket up one me and could hardly keep warm, but the air was to good I hated to close the init dow. Chicago was cold and gray. I ransferred to bleadown Itation and left at 9.15 all. in the "Havajo" (200. 9). Consing Illinois in ran through semal thurder storms and in Missing semal thurder storms and in Missing City at 9.30 PM in the midst of a terrific down pour, which probably continued much of the right.

Aug. 2.1921. In arrived at Alodge City at ?. It Ill.,
Syracuse Central Diese on a gray running, with
Kausas. great hunging cloud masses unhead.

As in moved instrumed the sky tephtened
but it remained cool and chilley. In

fra arrived at Syracuse about 10.00

and and I was one installed in the

Santa te' "Sequencyal," Solving a misted
of handling baggage which ingently

90 Film 1 demanded reduction in buth and ingto Exp. 1 came first, and I thipped some ahead flashed by purulo prot, also succeed a car for Sandlill Anth across the arlans as, which was conditions high from runt rams, to tandhill for collect about And in three miles from the M. Frim. Here & unked on the Hopes, Hops, axp. 3 in dry surles and along the sandy aun rand, with good result. Then the aim arhouse ins recorded and in row out some Valley from few miles to the month on the hope plain Ariver, hum, patched freeza (app. 4. augusti-behing folia) and tall unedo. Here trufficas with troubly numerous and intuiting Much of the catter region is now cultivated, and from appearance. The day is rather half I day Hotalled 201 Springers, or at the icht of 800 in two men per diene I maked until medning it putting it up. Borhama Hyratcher. Surral pains (Lyn)
Rach Spiron (line (Lyn)
Red headed Mordporther d number on
outshirts of syramse.

Mag. 3, 1921. hearing Cation I grames at 9. 10 am. in Trans. The arhansas Kin uns my ingh, and to Katon, many sections of the Intlands une n.m. in undated, ourning the rime had been much ingles in the last senity two homes. Endences of the Spring frishet the year which devistated willowne on uny hands - bridges gone, togs and hash against the bluff slopes, Irmidad it was wident there was Tam ahead and from Trinidad 15 Ration ar raw through the raise. me had two pulling and one pushing engine om the pros. at Cator I was som emportably installed in the seating Hotel and made immediate arrange. mento for a car and drive formore aug. 4, 1921. hearing the Teating With at 8, wall with Raton + a herdge roadstre and drive, we took the vienty, rond up I carm l'ass, climbing stradily, New Mex. the first part just out of Ponton very Film 1. Sharply so. Mpassed into a park-tike Ox. 4 country with brell-pine groves, and White flower as we continued to ascend un languly growing in left the pines behind and on the funnit summit of the preso, at about \$200-8400 Ration Pass feet, the come was mainly oak sunt.

Then I had splended views of to the most of Exp. 5 the Culebra range of the Conheces, many Fisher's Peak to the practis Extraining much some. from Raton The Spanish Peaks throng up, quite man Pass. at hand and files toak dominated Exp. 6 the innigen. Rething tak, east of dini-Spanish dad ciemed ony close. I work at the Punho of Fite Tunniet or one this home, then we your (?) from dropped down into the pines about 1500 Rutin Paso , wit, where we found title after Corp. 7(?) bunch and putting up the morning Cliffon House headed south, out on the new Mexican planes. I muhed near Clifton Huse, I miles due south and had splended results, so the east America Thursins Mesa and to the J. E. Mount Capulin The old volcano, Is the south showed up grite a high peak, which I do not know, / Ceturing another stop uno made just tunal miles out of them, and we a grass land comment serial interesting spices une taken, including probably un best serves & l'anabreillers. Tulling up Stuff, unting who, No. toh until ten moture Meadow Lack. Hushed see it Clifty Larle Banking. One targe finch, in mixed plumages along and s. of carm Sparno Hanh. Olive in Feligr. pole men Poatre

ang. 5. 1921. Getting the same machine and drive Ratur to top had yesterday I left the hotel at 8. or um. Mosa, Coffee east. Me transled by way of Cares brook and Co., M.M. y nukee, two small mining times, situated return. along the Chicorica Creek and its east forle. From Jankee in bagan to climb thoughy, to Film No.1, much so that us heated up the engine and Coxp. I had to cost it off, youher is at 7000 feet Infant fand in the next there miles in climbed a Johnson's thoroward fut, the road winding and Mesa, loshing fromting until near the level of the W. from coll, mesa. This latter varies from about 8000 to print, with 8300 feet, a few conical peaks rising light Culcha Raye me to Stoog feet, but as a whole it is in distance. Itting grassland, plains without trees,

Vilentes. 2. Film 1 no. 8. largely cultivated and also

Exp. 1, Carpet of wild flow with many cattle, the rich

Rosh down Johnson mesa lara soil bring grite valuable

canyon of last 8300 feet. agriculturally. I worked

East only

I at 8300 feet. of Chicorua in an onterop of the basic lava cap. The Crub, both, matrial was interesting and valuable, Barilla - as this is a piece of very high places, Johnson's probably higher than any similar condition Mesa Point outside of true montains, in the state. fine 750 Unless one approaches the edge of the fut he mesa it is difficult to realize me is so high about the surrounding country. Ranchers, are scallered on the mesa,

on pussed a school and The callle tosked good, The michro are cold with heavy survey in summer more rain talls than in the Invlando, and as Consequence There is more vigitation, com though the mesa top is considered Canadian by The 73. 4. Juny, tuch a profusion of wild times as grew using the ward, in the ungrayed parture, it has never been my privilege Is tu ofone, I took a protune to try and for trans idea of the investe, if there. hendo Adamon, purple, white: - yellow. leve spite of closely placed times in a head was a wonderful talmen ud Untitue more toracly groupsed head was jourple, in monderful pringete. Il Eupine the frank was a heaveney were author plant had spokes of small trumpet shaped flowers of purhish white, and another had small yellow, apparently tabiato, flowers. Not having a plant priess I would do nothing to preserve any. Leaving the mesa we imped down the road, had a printine and changed teres, and at 7500 feet weesting I mked again for about on how, getting in wateresting lot of matrias in grassy land and along the edge of rate scrib. The view down the carrigon from here was so pretty !

back in Ration at 12.15 P.M. Cefter lines of strong put up linesh and the usual afternoon shows developed.

Revis' Mordpuler. A number on yanker Magpie. Saw half a digen in sume canyon. aug. 6. 1921. 1 Carm to Wagon Mound, Mora Co., New Mexico men mound, and such, I left Ration at 9.30 UM. In magn Manuel. I did not bother with a Mara Co., New Mixico. Pullman seat, and fried the coaches packed. Anny at Wagne Mund at 11.00 I was som comfortably installed at the Trye Hotel, a small but clean and rather hambitte cast home - like place, where the ford was Anym mound plain but ford and the bid clean. after lunch I started of to the east and Lunk Ime ne this butte) wheel up the lower slopes of a nearly Cexp. 3. lava bitte to the east, then felling Lara bitte Mond. higher and finally reaching me of

which know the summitte about the tome the flopes were gets its name. Let alm the tom. The flopes were Exp. 4 wholly large irregular lara fragments hus Mexican with a name growth of various

how hopen plants in the crevices, which apparents

mund slowly and matrical was scarce

Exp. 5. and none at ill of the from easy to Community fit, The view of the Eura butter to the withich west, toward The Coundars Will, The The w. Melamplus Hilling direct trette to the evest ocumedon and the distant Mahies, as well lum bitter as the great stretch of planes to the Exp. 6. unth and south une splended. unthuland her conding the peale I make for butte isst some fine in extension rabbit wied January Manual areas on the with side of the tulles, with in different success, although getting Cexp.) some interesting things, this totalis Roohing MM. human fite dunta te rail, the rule of which Culibra Range are plainly irrible, a find road m lana being nearly, this travel of the trail mesu from hills E. of ran from Cumann, Kansas, V. W. man mound. - met the main trail at Ant ilium, Pairie Dogs, Serral Anno brita,. Rutm and Springer.

aug. 7, 1921, Dagon Mound, Mora Co, New Mexico to allreguerque Bernalillo Co, New Mexico In the night in had a terrific down. pour of rain, which was succeeded by a steady soahing, in the meantine it turned quite cold. The menung dunned cold, frey and rainy and it was endeut mich was improsite Certainly before my learning time for albuguergue. I brote litter and packet up and left at 11.50 for albreguegue It continued but all the way, and ran though a very hear Ament of wire on the glineta lass, and it was running Headely when us. Euched Whaquinghe. This Hopped while two at dinner and There gave place to a thundustown which Hartis it Af ago. Galistes Crucke ments fra a machine to-more and then must to bid.

Aug 8, 192), Misa between Ollhagungue & Sandia Mt. 2 Corales mear alameda, Benealillo Co., Esp. 8 Mew Mixico. Eminimum Mith a machine I left The alunado at Corales at 8.15 and Hatro cast transfithe Where Phasm. Jandias. I maked first at a place

not for to the mot to the fandine and near where My air - I had taken Hugiortina in 1919. I surred some of the Eatter, but ranged wordly and runed a an uprimitation or matrials, ohim and there I harried a laye pince of scritny, the with not in usulto. I Doth irralities une computity norm with truble - weed, and the vorthing funcia to in in it, while the mater with atim was almost where the pulls (inge small) it rubit med. when much, went int with the machine afair, this teins up the in o illameda and then arrise the mage to the west sand, ut in winte old selllement of korules. Here were extension and I ormer sound wills or ut wast of sundy wand, with sentimed our, wheren. produced divier e inches of both sexes of Diaphermera and a Lew individuals of Bendorennyle. I have new seen the frame in such muchio, I took a first times and my bottles would hold no more, Thunder Home we all around up, but we did not get any rain then. On the my in in pushed, a little way off, a barn and a house on fire. Insthing

gone. In the energy a steady deliging aug. 9, 1921. Allngungue "to Holbrow, arigina.
ifter brakfast I had the machine take me down the sime valley about for miles below the city, where I maked first in. a not meading track, then in dry mud that with itriplex oushes, The former yielded Paropmala calamies and 1. the ingata. The latter inality preduced mantities of electy we in the apples Justes and most surprising Mestolique Ferricalor in the dry med flato. Yettin inche to allrequerque at 11. or am. I haskil pashed, settled my till, for a like of Lunch and If at 11.45 in the tays Fast mail for Hollowle, anigma. The Mail boasts just me day coach in addition to the solid mais caro it curries and conditions are rather crowded on, while the Mexican + Indian other and strong may mining. The fellow who fat next to me proced to be the sont witholbrook Janher & camehonen, a Harrie fraduate, and a most interesting,

at 6. 1/2 1. M., and there he saw ?

highly iducated chap. In chatted all

in salery started in the immunical 14thes , wine wo trulices more. I was now filian de compretable mon unto e bath, there and a good inner with my undi krome her. It is vie men willent and see whangethe smething which tills me I am in that state, which holds to many pleasant mennies for me, made though felt. Whether it is the scople, who are more of the todo country type than three from east of here, I do net kum, but as evening fell I looked out the winder and and area berno The great plateau fell that unduful Sunsit and its aftington which left no mistake of anima, the land of yolden sunset thies.

Aug 10, 1921. Holbrook, Cingma after a find, if
Film no. 3 typically "wrotine" breakfast of tacon
Exp. no. 1. the good coffee, with some con feates,
Condition I was of to the with working in the
med shale sufficiently between the town and
escargement, their our this
1 Pengintin and upon the mesa above it, or a
talunhum rolling tandy warmed town the form
Express 2 poor sound, almost in hills, vising
Bush in my decidedly above the recomposited,
which & which is of the red shales and said

Plajistia stone of the Mouniope franches. Mat. was taken was way france, the only thirling Exp, no. 31 thing taken was 3 sprimmere Il Plagio Loshing on Hira, taken only lifter persettent und Little Colorado una in referent stants. aller Tim from things were ixtrumely I cause, although escapment almost no inno mas spirit in the n. of Hollowh. or valing som. Ceffen bruch I struck Exp. no. 4 top along the nittle Colorado Pano, en the buch inhing the morstre ditches along the muna M. of Knilsond, there circling of to the Hollowh unth and coming inchraling the with budland as component, he muchos success to comment was ivery less than in the morning, in distance, although I added 3 sprices to the list, me of which, Mestobegua berrieda, Reptile no. I had been looking . In all morning 58,59/61, in many suitable and flats. after 62+63. dinner I moto litter and untelled Holdrok. what i em of anyma, the close of aug. 19. 19v. the day, with its ister and under. Drying midle te Torinell - One on escarpment was luring with 6 solid Thribe - One in teregraph ince in P.M. inches acress of besthroom. of motherap went AMocucopie thales -Haho. no. 8. Balanced Wilm no. 4, Exp. 1. Erroren in Lane es carpenent. E. no. 2. Nest of garning ant - the leaves comment are of the descobations - like plant proving in the incinity the leaves are with of hander

Stratum in soft

Es carpon, L

aug. 11, 1921. Holbrook, Maryo Co, anyma to fullup. Mc/anly Co., New Mexico. Ciffe iredufant I parked and then left at 10.35 am. for Jullup, This Frain (no.8, like no] mothmed, carries a single concle at the end of the many cars and to accountations are in Consequence Amenhat primities. Wear the New Mexican time in raw wito unarea of heavy rame and it intimed with Us to fallup, i fot metalled ut the Harry " El Navajo", Got some lunch, and there struck out to work in the vicinity. I walked a good distance und started wish in the hills, with & cattered rumper and clumps of sage. Nothing denloped at all, inathing in wo with cold, and the rain came again, a strady traking rain. I tried to ride it out for! a while, but some tound it was no use as it was a stages, and no wratter how unling I was to wait the contecape was throughly traked or the day & und one Celistantly I must in at me o circle, with no Outherstree ut all.

Hrihe. Une " "

ang. 12.1921. Anthop, New Mixes to albriguergue, I light the Elavajo "at 8.00 um. in a waching Film no.4, Cerp. 3 - 4. bound on the wills to the East, They take much were than they really and and Views to with me unles is the distance, much mine from hallo ing wash. In bogged down bad in one 6. Afallup. Ung muddy spot and had to nama Carp. V. AM lift by a huseround, who put a rope hetails of on us. One hells are a smille set of hills at hogbatho running with and mith, tame. with a valley between. They sun up to namely 7000 seet with scattered juice and pinho in their slopes and sage on the und at their vases, Collecting als atracionaly and too specimen of for species was the return for Three homo strady work. My stomach. has been wine here trouble, and akklar alfogether I was not in the haps is is respirable in the diarrhouse comdetime, as the native tell me There is much of the same trulle here! left at 2.00 1.M. for allingmenque, arming at 7.15 and leaving at 10.101.m. in a Meeper for Vaugher, New Mexico.

quatratcher prayhead In hills feeding.

with dismarkening luch, theff was terribly scarces, that is adult, and it looks try much as if this was from 2 to 3 wishs to early for this elevation upport . 6000 feet. Why this should be have, when things une gracks for at Cliften. Amoe vine days ago, with fluir and some in muledo of feet buffer is hand to understand, unless the / Calow Mesa there are as a protesting burner inneh I put up stuff and a heavy raw, which was a prostolety from 11.00 mill in, jet in . This rain was strady until after four o, chile, completily tooling troughting and all chance of further unto at Vaugher was gone. Ut sever o'clock I took the regular machine which runs our to the Kirle Island statum, which is between tus and three miles away from the Lant a Fé Hatim, and at 7.45 (mountain Dine) 1.M. Horarded the folder Itah limited. This landed me, my fired and sleepy at Ducumears at 10.25, on time, having made up uphteen minutes. Twas com in a comfortable bid at the Vorenberg Hotel. Homed Lacks. Hecho of their at Daugher. Brunning Olul. Our at Vaugher.

shasure of taking three fevera of Phasuidae mera - in the askerment. Or heary Home was guthering and at in? care of, so I estured and put up mater ial I must f the UNA stuff had trew prepared at now until 1.15. a good line with a 1-true provid wilcome to my knied body. The stown to the while I was ut dinner, but didn't last long. The remainder of the material und taken care of, and I was in bed by 10.00 P.M. Mountain Jene. The from uses Mountain some, although fring toot the trains tean on Central suche

breast) sono with coming of young flushed in heavy grassland. Water flushed, funde beigned broken wing.

Aug. 15, 1921. Ducumani New Mexico to Gryman, Hom 5 Dexas Co., Oklahama.

Exp. no. 1 Dusther night with a splendid sleep feneral and I was awake early as I had in my conditions mind that must take Central Dime at Juyman, when leaving Ducumani, and That meant are home lost. Often a good breakfust at the 'Waffle House', where

had dumer last night. My train left at 9.45 am. Central Jime, and I had a tiresme ride until 2.35 PM. to reach Guymon, aklahoma. The country fraduelly passed fine a high volling places with the union doited with trilles and mesas, is at vuruman, to low more und planes, with more and more I then surface under cultivation, The dup valle of the Canadian from uso the only considerable industration in the ruface crossed. Yuymen is a typical prairie planes tours, with electric unices not no current Whelahand expresses it, but an effort to or motion int southern in if winey. With in this part of the country uno not appeal to me, installed at the little The Attil, cream out vine ordinary, I sallied with and in the vicinity of the trus fried more than enough to keep me trusy will afternoon. This in Pront. russ fields, wiedy strips, eli. he had a rain early in the soming and this uns Munch ha a underfre, mann. hud min su ahren er er en en en en

Aug 16,

Guymon, Dexas Co, Oklahoma to Walhart, a underful sleep I was ont again a few muntes after eight o'clock. I pushed brynd Ishere I worked yesterday afternoon and I worked in a piece of Shoulder-high fraso, with splendid success, and also gave the short grass country more attention: The general results une splundid. I mas brike thouthy before noon; unhed hard to I left Grand about 2.50 P.M. for Dalbatt, sevenly-odd miles to the ontho west the business center of the upper "Trandle" of Dexas aring at 5, 10 Pm I was som settled with fair comfort at the ble doto Hotel, a pretentions how telry, which is tadly out of grint in some ways. Mouning how, trequest tetes, Juymon

Mouning herr, Frequent litts, Juymon a blathant. Meadow Lock, Frequent ditto.
Mejutianh. Museum ditto some shing (at. 3, 3 of m) their working in posts of int-wire fence and others which live and their itself.

aug. 17. 1921. Walhart, Dexas to Childress, Dexas Cifter breakfast I went of to the word of the Filmons tom along the P. V. and unlied for a strike Exp. 2. If a mile or two, getting excellent results leveral although ungrazed or uncultivated country enroum is at a pasmiam. When I reluctantly A unhat had to stop, to be able to take care of my Dalhart matrical and make my traw, I had Cosp. i. on two hundred sprainces, which is View Colingputo a series for me man, when the S.M. at meersarily selective character of the Walhart unh is considered. The preparation of the matrial took considerable hime, as quite a lot degrined dip treatment. My train one the first both and blenow City RW. was due to leave ut 2.5 f 1m. but it uns 2.50 before it did depart. This was is not a wonderful time, and yman glad it does not now any too fast after you su some of the road bed. The country for forty miles or so S. Co. of washart is willing high plains, there you cuter an area of loaning sand or pure from Jung bills and billows, near Vascosa, and there you cross the broad valley of the Cantadian / Cim. Half of the and in coose sound, and with it strong mind storing from the south, from a! Horm aren, the whole us in filled

with circles of sand, There I had noticed in the horizon when away to the unth, and could not tell what They were. All in all the landscape was me of the incodest and most Inhedding I han em teen. He Me rached imaillo at 6.45 in the tail and of the rain stones It is grito a city, with an imposing solid ness, at seast from the vailand. Burnd umarillo un had a umdeful denthe rambon, tracked in a wished gray say a lighted by a golden sunset. In reached Childress at 11.05 I'm and I was own installed at the Rhea MAS, a large but autignaty Though clean, place.

Aug. 18, 1901. Childress, Dex as to Simaniles, Dexas.

Cifer a tatio factor breakfast at the

withood cuting house I started Af to the

cast and town realized that Childress
is a sprawly town, the many of the lume

country of Dexas, and also that the

cinnity is one will cultivated. I had

the greathot difficulty to find territory

which was not either cultivated a old

fields, and these une only small patches,

the heat was terrifice, the humidity

marked, and the satter was required

112 after having which we more and localities The results me rather meager, a few good things, but the aight plain from almost all your, and the typical element but mably indicated a between uging In the afternoon, trief another derection with no orthor in out as a whole pomer results. Going in and parking & left at 6.60 1.M- for amarillo, cetting dine in the tran. I arrived there at "11.00 1.m. and som fring mingan at the amunillo Notes ", and after Swapping experiences in it une in bid about 12.15 WM. Drison-tuiled Hyrotcher, tw. at Childress there une moulting o the tail - cathers une order /2 pours. hom, for at Childress. Might Hanh How at Children. ang. 19, Comarilla Dexas, Palo Duro Canyon, 1921. to Canadian, Dexus. harge It was about 6. 30 and when I ame comera and kubbed a shared. Cifter a good 3 up nous brishfast we started out with a machine at Suppy which mingen had fired, for talo hours & Crossing,

Palshours Canyon, where at Happy Canyon Cross inhed most successfully all morning. Talo hours Campo is a deep truck in the Habred Pluines with a theaun in the tottom which flows into the Prairie hog Inh of the Red King, in fact it is one of the readuration of that In systime. It is approximately kno hundred feet deep, and one comes to the edge without warming. The upper Topolo of the carryon those muched expressed from apparently wine conglower while grassy buils slopes lead down to the intern of the carryon which was a think it and a cottomindo. In unled the upper stopes the muches and the botterns ind took me three hundred spurvers, the unage of large size. Kituring to Cunarillo in had tweel and their tackled the tack of putting up our matrial, which decupied toth of as tolide until after four o'clock. Yaching then, we left for the fauta te station. where my hand a first support and left let 6, 30 PM. me su funta to for Canada Dexas, 98 miles away. The Frain con a decided contrast to the one tured. tast night, as the wadded use smooth and we arraged on frity miles and

the prefection tent surface of the Habitale Planies, this as clarkness the gradually breaking down to the valle of the Canadian Cim. on reached Canadian at 4, 25 PM and and some some installed in a countratable come at the Horst

Might Hanh, Munerous at Amarillo.

with hanh - Canadian, Love wated on wine fewer proso - me in the years insulated of the relegram wire wainson's Hank (upparently - lase of tail which, tip dark), Munerous what Amarillo + better there - Canadia Ped-bellied Modpreher, two having a mo in colloward trees in brilling Palo blues Canage.

Lack Bunting. Uremenus between Canyon.

Chy 20, 1921. Canadian, Dexas to Amarillo, Dixas ale no. In had a splundid night's sleep in comfutable 65 bido and a good brialfast at the Harvey Phryacona, enting house at the station. Then with a Canadian, Ford of driver started not across the rune dexas. flat, crossed the rim and pulled up to aug is. I the summit of ony wiend and ragged Filmenos sandhillo which dominate the rinth exp. 4. side of the valley. She we wow comed with Lorling SW. tall grass, thickets of wild grape and an Candian the bushes, with a few blow- outs", Here Rim Valley in unhed for meanly three homo with at Canadian splendid and success. Then in droped Cxp. 5. part the way down the hills for about Sundhill thirty minutes with, following this by Conditions about the same time in the tall grasses at Canadian and reeds of the rien flat. It was nearly exp. 6 me o'clock when we reached the lettel found and with a large hand of sprinners, and after hills and. huch in rombed stradily until from at Cunadian preparing, but not packing the material, exp. 7. It form we are of for about an hour, which Butte on a spirit on a large butte, an outlier of the which airo - Staked Plum es component, Were un fried tettix was Cristellex and put on time in quite sohwat profitably, She britter must have reached Cunadian marly a thousand first about the Canadian finnel and its base a rush buch to form followed, among butter and gathering our blongings and felling

Shutar. It was extremely hot, but a my Anny and modified this smewhat alttingh it made collecting much mue difficult. The authinted fields of which there are many, an layely in Inghum, kaffri com, feterita and Ludan grues, with some may while there is much land for cattle Juging. The uning was recepted in packing a putting up instraid funismis Hank, Und dead in fune at Aug. 22, 1921. hubbrel, Dexas to Closis, Curry Co., Mus. Son. com. Som. cam. It was still solidly dark when we tilm no. 6 were called at 5. or term. to make the Halitat 5,53 am. frain to Clorio. In had of Plagustina time merely for a bits at a little in sandhillo cating house mean the station, mar Cames, coul flakes a coffee without sugar, n.m. not very substantial but it lasted us until ur could get more at Closis. The Frain is only fine minutes late, som meden ne our way. The country for the whole Itaked Plains with hardly a sull in break to it. Betimen Mileshor, Dexas and Dexiro, W.M. you can Lu off in the distance low landhill,

The buly appreciable difference between

The Clono region and that about hubbreh is that the former is drier, the gruss as a whole opinion and bed frund (three augustifilia) much mile abundant. Mu une som installed in computable some at the graw Luind, the Harry fast. Changing back to met. Dime Calmit 9, 15 when in started out he gras just south of the railroad and also in tall grass along the hack, The results me fair but not startling. lefter lunch in Thipped a case I containing them cigar by is filled with specimens, then at 2. ATM. with a machine and drive in started for sandhells hew miles south. In found their near Cames, in Kirsentt County and unked there for meanly two. Inn ench and a striking & Ano hundred sprimerio Back at the hotel at fine in me until after mine o'clock packing +

proparing material. After succession early morning hands in more fired when in most to bed shortly after ten.

Ashansa Hyratcher. Lineal at Clarical Rank Bunking. Lemas fresh triged.

Flish htto. Clinio a Carneo.

Burring Und. Lev. betw. Luthrile a.

Clivis, rear dy trus; me

pushed in felice post.

Aug 13,1921. Cloris, Curry Co., New Mexico to Personge, Sun came, Charro Co. H. M.

Film 6,2002 Offer packing and fetting tradfast
Surface in formed that our train until to
conditions delayed, due to the laterus of and
on mera castern connection. It was 10.45 am.

at Perundinstrad of 9, so when our train for Persontle
large caminably was similar level Stated
at Cames Tains to that about Cloris, but then
taken form in struck the came sand and near

train. Cames where we worked yesterday.

Train. Cames where we worked yesterday.

June then on plains with areas of
and reddish sands alternated

rather sharply in started to drop

down in a winding draw, The valley

spread not lifere you, with in The

distance The Capitan Mito, and un the for distance Sierra Blanca. The winity of Knowll is very altractive and the Ann itself teams a must pleasing impression, bring my substant. built, with tastiful buildings and brantifully shaded structs. The presince of water is clearly evident, as it is bestorian in this region. In inne om comfortally quartered at the Gilder Hotel, which is clear comfortable and fully satisfactory. Letting a car of driver en started to the unot, to spind time home on the name grown in that direct in. howe In out in a rolling men tile bunch, mothertung the valley, where Here in until in dry brush of rathit ind, a few Contlea, scattered cacking and other depert type plants Me also unched in Swale formutions of heavy to a ablit word, in small and la mend fruit und one section, near stunding unter, of rank grance a med. In ime back at the hotel at 5.30 with an interesting Land, with the first trimeretropio unguifica intahun by wither of no [2 got et) while Mayon has taken

m had me matrial prohistly Meadon' Lach. Lw. betw. Clasis e Rosente. Shinke the little. hack Buntings Histo liter. ditto henry Frequent ditto & at Resentl. aug. 24, 1921 Coswell Chans Co., M. M. to Carlobad, Film 6 no. Me left the Gilder Hetel at f. or all with 3, Broken the fame machine in had yestuday country and run of to the month about at melenafifken miles all told. & dropped M.M., loling off at one point and unled un mot Capitan and how and a half in low in det. I hills if Caliche and broken time-Ame with few Civillea and merguite maits, much scattered grass and on the flat at their Voases much rabbit und. I had things how paris of Cicaritheres. Myse Prim bottom, en similar hills to Those Tryamined, on the bruch of the mesa in back of the hills inth fair results. These Coralities une near the Hatim of Melena.

I Coming back to time in examine an alkali feat and a piece of heavy brush and creek bottom, with amage sinceso. Gitting a hasty lunch in lift / copull at 1.10 1.1M. and trankled to Carlolad. the general comes of the Peco for the greater part of the way, their an Txturin mes a compilled a dioring across the rim, man me of the lage irrigation dans, and queto a engyling through the hills in the hland es carponent. A thoup shop then bright no to the Perso a Carlobad. It was a wry dury ride, the dust being my bad. He arrived at 4.00 1.M. I put up at The Crampred Hitel, a very attraction and west place Aine This prove to be excellent

Anned Racks. Herebes htw. Result.
Milena.
Rust-runia. Dur men Melena.
Miching bird. Ane at Melena.

باد

Aug. 25. 1921. Carlobad., View Mexico + en-routs to Fin . cans . Jelus 0 exp. no. + Me and quite ranky before six and after a my murper sotif a grad winhfast and some hunting around bills S. W mmanaged to get a man and a of Carlsbad machine for the day a but it fully exp. 200. 5. a cond it's purpose. In the moning we Catoclaw want off to the northwest in a section of thister at ditto rolling hills of limes me and calibre, exp no. 6. with scattered immer champs, much Jeneral Emd at sotol, ocotillo + a few Civillea, inth fort of hill N. W. gCarlotal much men Carillea and brack bush esp. no.7. James wines on flatter land of suciles fruestern at the fort of the wills. Acre we unhed ment of acrocara for I me home, with good success, petting at ditto aring the fine things leroun agree obether, Brotettix and Dichopetula. In also unhed at several localities on the more level country at the tare of the hills. Thrug in just at noon, after fin home, we put up matrial, and Innah and we of again at his headed Innah hills 4, 6. If the form accounts the Pecas Rion. Here in embed with marly four thirty, petting many port things Boopedur, Paratetter Sysbula funcositlata etc. In me tack at the Shotel at fin, put up making, packed, had dinner of in the allarquer

to the nine broken country about Willard and in the Estamua valley. In passed south of the main Mangano range, with deep cuts and much who work. driving at Belew on car uns put na train from Ed laso and we arrived as we had to lear at egit? M., with Heeper tribets and denner to get in quite busy. as upper berthe only une runable un unt up stains, and su passing on the Glorieta und Icaton Passes it was quite chilly with warm periods between In consequence Burning Col. number true Closis Willand Jug 27, 1921. Ou route to Pueblo and Lalida, Colo. In breakfasted at drive dad and arrived at ha funta at 10.20 all, fitting lunch there and leaving at 12.15 1.M. for Pueblo. On the out skirls of That city evident of the floor of this spring byen to be Eindent. Kailroad fridges une tangled masses of theel, frught cars apturned and melashed, worden houses rolled me in their sides, brick stul funcies undermined, stud water Formers crumpled, brick walls breached and some and general desolution on

all the low lying land. Young to the # tiths I Vail from the railroad Hation the water mark was endent on most of the trildings which ment dendested, the Union R. 16. stutim had been a heavy sufferer and the that had water half way up the first flow. The plaster had been all temporary, apparently the riginal wring having been promided be me som not with a markine and unked for about two hours on prince land I'W. of the city. The results une fairly from in variety and in rushed trick, the way. Un matrial was one prepared, in had an excellent denner and une about about the 8101.m. D. R. g. frain brond for Saleda. In une unable to get tento in the transland Pullmans so in went into the Downing which was my clean and ment, he left some winter late, and we antimed to love time until we reached talida at 12. 35 am, about 40 minutes late more confinated in the little / Cambon Hotel and in bed, with an ice with bruge coming in the under.

aug. 28, 1921. Salida to Monarch Paso, Saguache Range and return. Tilue not. In had a good breakfast at the Commernos, cial Cafe and then managed to get Loshingback a mare to take no semal miles 15 lum east the buch of the mountains. We worked Paso Found from fact, the form being 7000 fact, layer areas of jumper of rulley & salida and prime, on minative like ridges from appear, with deep warrage- like stream bids gon bet between. This work was on the lower Alm no. 7. flopes of Methodist Mita, which probable up. no. 1. reaches about 10 000 feet, while the N.W. Fine Monarch of us formed the Collegiate on Saquache Pers, 18200 feet Range, with the Park Range on the looking W. m tast side of the arbans as bulley. funcion to walked back to tom, put up part belley. I me matrial had a good linely noz. Firsh and there left in a machine for the line peak offermon in the segion of Monach at Monant Vass. This was a wonderful trip, Pers. widing up, climbing steadily, in 3. Vino to past the minime from & Monacelo undichters (100 for fect on a road langely in profect condition to the summit of the pros at 11200 feet, in frusher line anditions. We reached there an youth a show and had by mant a while byne attempting to

mile. Then in seemed in a time hill extinding about three tundred feet alm the paso, with good results, setting a fine series of Melanophus excelsus and also of Groupleries. In had had fromthe with the clutch of the can in the way up and when the dring endeaned to turn it at The paso's Summet he had jamued his gear So that the can was stalled, It was bitterly sold used the had sale their cotton therts on and in suffered quite à little. Simal cars stopped to help and are company insisted that I go on down with them, as I had a my evident cold, while Mugan elected to Stay and help the cripple. We saw down Tather storty and get to Salida in a heavy rain. I pluded to get some Sinder and Morgan came in while I was eating. They trafteneperarily and they came in about frity minute behind the can y was in. In had me famit T- love, made unaugements for another machine for the mest day and pashed on stuff and trunch in third not and meding nest

Aug. 29, 1921. Salida to Monarch Paro and return, Sur, com. In me up shortly before seven and There me .) at eight o'clock in left with a driver any 4. named whillow and a try Cole cars Our Cours and plan was to und at a mucho of stations on the east side of the pass and near maywille, one in the west side, in Granison Colo, County. The morning was underfully clear and brilliant, but it was not long time closedo began to gather and momenno stormo una in sight, although in had the extreme good fortun A not getting in all any, atthrigh they were all almit us. In worked first mean Maysville, a small settlement in the time sentime of the long villey which leads up to Monance luss, and at an elevation of approximately 8000-8500 fact, Here slope exposure uns! beautifully illustrated, the north facus Hope being soled aspew, the south facing slope reathered bull pine, heavy culled and low growth of the Ochansas Valley Appe, which element was will represented in the Out. Next were unles almobilino Garfield, awill and nearly extinct mining forms at 9000 feet. This was fully Canadian in sungerry. The Frend AMorrand at 100 k8 fut un ment print, an Ad

and decerpit, although famous or infamous mining time of several decades ago, The tite of the Monarch Mine, which is high up on the south stope of the valley, probably soo feet alm the time. This vicinity is upper Canadian and above the from a few hundred feet is a be antiful meadow which is really Andsmian. Me unhed refain at the summit of the pass and added desirable teres, then un dropped down in the inst side into the Pacific draing a that distance, to approx. 10 \$000 feet where ar spent a little time in a Hudsman meadow. Mu unhed comfortally to taleda, adding matinal from inch of the Hatren examined on the way up. We arrived in from at 4.001m and had our material all taken care of ty 6 1.M.

Magpie. Dur at approx. 8000 feet hern. Numerous up to atleast 9000 fex Spareno Hanki Men Salida (1)

a se had

The same of the sa

Aug. 30, 1921. Salida, Colo. to Gumison, Gumison Co, Colnado. I was up at 4. 45 UM. as our frame un due to leage at 6.00 Um, but after dressing I learned it would not learn Lustif 7! 00 on account of delay of a sometime, getting breakfast in the we have we about and settled when the little navns-jauge left at 7.00. The ingine with which your Hust and which takes tigo Marchall lass and down to Sargent in the upper Guninia valley es a mest remarkable one, It has the dring which are my tiny, inside of the frames, with very large counterweights intride. It is very pourfu for its size, homer, and this single bronstine take, up and me the lass withing any addition help. hearing tolida you go up a stight het appreciable glade to for the frunties, then furn than south and start climbing in earnest ap the carry on which Cado to Pomeha Pass, at Means fronting you leave the Poncha I Vaso line, which poes to alamos and in real carriest start clinking the montaine side in long

Dunging curso with many dup cuto and shoup fills. he a surprise. that time you have follow to the & print where Means frunkin is a Ainy little place below you, and still lit is up gund up. The turning In sund thedo, and here you hald? just long enough for the brakes to Liexanined, and no time is tuke any pictures of the unding up in the east side uno complicate and theep that on the unst ins far imore, and in a surprisingly that time in me will down in a deep valley and some aring at the from of Surgerit, where ar changed to any engine with lager dring. I might add that Maisher lass is not at trimbur-line, but is work Hudemian with thing Caux influence. It is more maily Comparable to the meader alm Moranch than to any place seen so far by us. From fargent in handled rapidly the brilening mount tains fitter low and the truth gradually disappearing, giving place to sage, which

goes very ligh in This region. This type of country continues until one hearles fumison. Musached there at 11.30 all and after a little hunt in finally for a bry comfortall by name. Mad a splendid Shough at a fapinese restreament, and in the during a underful dinner, with an excellent Tolline Heal, at the same place. he managed to get a can to take us out and for some distance up the hill moth of the Konn, fair prifit. In energ direction I. & and W. W. with fund paklus Alma Betis, Lagent a francismo. Agnie Bluebrid (no bring) Municipal in francismo. Aug 31, 1921, Gumism to Montrose, Colorado.

Show pictures the work up at some and breakfastif Humison at the Pain bow Cafe, not as good as Canyon the Jup, who was not open at that then in fine. In their must out for a short time 3 A. in open land adjacent to the town,

Montrose was due to lean framewow at 10.30 am. but it was now before it finally did get anny, I stant distance west of Junion in got into the Black Carryen of the firmeron and setting out into the spin obsiration can which They put in at Sapinero in had a splind noto, meluding Curesante Mudle, until a heavy thom drove us tack to our car. Cut Commeron, where the suil has turned not of the valley of the funning itself into that of Commance Creek in had our dinner, a fair one, at a little railroad eating house. From Cimmann it uns house ony to have a helper enque to help no lep to Ceno Junnet 1900 feet, then it was down hill into Monthone, which we comed rapidle and arrived almit 4, or 1m, fine hand lato. The incimity of Montrose is layely pion up to agriculture, the troughers tundo of the land Uncompalire Rim valley bring irrigated from ternal some in being with brought from the Junion Ring by war of the fumo framen vinnel.

Herned harks One found injured it in Stern Meadad Rock Sed at formism

Breun's Blackhif Comment Junion I white - bellied smallow - but which spices is? Humerons at funinsen. Sept. 1. 1921. Montrose to Delluride, Colorado. after a breakfast at 7. 30 in me of att in a machine for unte up the Canyon near Cedar Crub, which in descended yesterday in coming from Cerro Siment. The rain of yesterday had made enrything deep pasty mud and our first top about four miles from Montrose, was a sea of mied, which, homen, netted us a few find things. In next mind up into the canyon man Cedar Creek and unhed there seemed homes there raw on to the outlet of the famous The Uncompaligne Valley, Just their a heavy rain, which had been tranging and for sunal home, but us and we realized our und uns done fumism Junel 6 miles ling, drop 1 fort to the pulle. Keturing to Monthere we puched un matrial, had lunch end were at the station at 2, for our fram to Delluride, which horning did not cerrin for an time and a half, and didn't keun for Ano hours. The ride \$6 Kidging was a steady unding

inthe changing vistes of the Hucompaligne of the dan pian moto ahead of us. at Kidging in une made no and taken in kno by a 10. q. S. engine and in Harted for Dellurido, clembing Headely 2000 fut to Wallas whide on the unst piece of railroad track & have en been in, without exception the free come in bad andition, many broken and the rail only spited bit a miss. But peaks of the Jan Juano - Miti Hayden Meno and Ineffel uno unduful and in enjoyed it as fielly as the truck until prinit. Inst at dark the Dullas Miride uns crossed and in started the drop to the Vance Jametin and then in climbed up to delluride, where un union of at 9.30 PM. Ih me som settled at the New Sheridan and had a underful duner.

White-bellied Swift. Munhor at Cercan.
Brown's Blacklindo, " at Montroe.

Sept 2, 1921. Delluride to top of St. Sophia ridge, San Juan Mto, Colorado. after a breakfast at 6.45 19M. in started at 1, 40 with Laddle animals and a ony congenial boy to quide us, for the top of the ridge in the mith side of the dan Miquel Valley. In Harted climbing immediately from the form, up a first wagon would whise goes all the way to the Som- by mille The peaks about no une in some cloud, when in started but no me in hopes that they would clear up. he pushed tradily upward, not stopping on the way, as we wanted to work high up before the rains could start. at More feet, and at read the equally large Inn - by Mine, which also has ito will at This elevation, while the Imniggler framo its no down to its mill in the orlley a mile alm Delluride, i.e. up The valley. The Imagelia Mino is a short distance below timber-live the Dow-by directly at Funter-line. In Started und in underful alpme meadows just alm the Dom-by, with pikas bleating and marrhoto whis thing about us. The clouds une gathering

heavily by this time and in decided to push on the top of the sidge, hastily examine It and then unde In. try and the summet the thereway very greatly and I me few hundred fut below the summit en left mer Janimalo with the by and climbed The remainder to the ridge (13100 feet on fort. There a haif oform het us and un took a little shelfer in a calm there with a line-man who was looking after pour and telephone Situation in the S. E. m took seemal pictures ishich us hope will kun out good, but clouds were all about us and it was extremely cold and ent. Starting down in stopped at about 1240d feet and ato me lunch, also having an experience with quito a familiar pita, em taking his picture, Harnigan are said to be here, but un saw none, but did see one lot of what appeared to be lever in a lush and interesting Hudson. Lan meading near Jam - bry, fetting most interesting matrice. Miling in in stopped but about three

places to work, a difficult thing, however, as the slipes were inferiend far two steep. The sky had in got semal cleared brantifully and we got semal pictures which should to any good. In reached delluride at 4.45, put up our matrial, had an excellent dinner and went to bed fired and the.

? Leucesticte. Dens florks alm Dom-by, almet 12200-12600 feet.

Sept 3, 1921, Delluride Colo & orcinite on the morning was spent unhing in both slopes of the faw Mignel balley just east of Delluride with very adman buch except for a good wies of male and drom to Cushman Rahe, about 9700 feet cleration, and me the real to applier the had some underful views of Sanshine Mits., Mit. Wilom the aighest peak in this part of the among winds of Chloralties and also a member of interesting other

Maypie. A mumber in the road to Curhinan Rake. Sparrow Hawh. About fine seen detto. Blue funted Jay. Leonal seen about Telluride ather about Curhinan Sake.

Sept. 4,1921, Selluride, Colnado to Manco, Colorado. m une up early and left Dellurido at 7.15 am, in the alwango traw, trund for Manno, From Vance mucken in climbed steadily to higard read, passing irmed the aphir Roop, almoride of Front Raha and all the time getting tolended views of Sunshine motor, the San Mignel fromp, with met, wilcon and other elevations, much as the higard Head. In trobabut fin picture, of which in han greathopes. From hozard Head lass in shifted from The draininge of the Law Mignel Rims to that of the holmes, and us followed down this, past Kies and finally into the grist little from of herbour, where in had a good dinner. The pussages from spince and copen to yellow pine and finally to juniper and pines une muched. Rearing helders in climbed A plateau country with some prod

original stand and much promising seemed growth gellow pine, some of the itself is on the edge of Junior & prime comed means, with the Ra Plata Mlo. If to the east, arriving at 3.00 /M, one how late, un most sum most confortally installed at the Wrightsman lattet, and then started not for a hief humination of meanly slopes. Dust humination of meanly slopes. Dust good results.

Alipper. One flying, then running along Aream in Upper blotnes mentigeed Head Paso. Blue fruited Day. Numerous along Upper Magne. Luw as low as upper edge of.

Yellow Pines on Upper Delines

Durhey Burgard. Une soming mean Red- thatted Flisher. Une along helmes

Sept 5, 1921. Mancoo, Colonado do Durango, Colo. Cefter a good sound night theep in a confutable bed in me of affer eight oche on fort, for the hills for the the north of Manino and of where we maked yeater-

Perm.

clay, The day was perfect, like the two preceding it! In unhed and a number of slopes, some comed with sage and yellow- fluried compositio, their with pinne and jumper frest. ils a whole it was a most successful morning, and in succeed important series of a much of scarce a particularly desirable spouces. After truck ur transported our baggage to the station, and left for heurange at 2,00 P.M., fifty minutes late. From Mances the Frain claimto up a steady grade to about for feet, in 1500 alm Mauco fitting out of the valley of the alolones and into that of the Unimas / cion, which latter is a tributary of this Lan from, be stopped at serval mining, mainly en mining, tomo and as it was halm heay, the members of the U.M. W. of A und conspicuous with red badges - track initials. It Messen the marchael, fully and conspicuously armed, was in evidence in the Hatim platform. Oursing at hourange un une one finnsferred to the Anthon Hotel, but no romo une avuilable and in me assigned to kno colo in a hall alcoves to me thankfeet we had packed all me matrial

before leaving Marros, as facilities une not what me amale call takes factory. In did have, however, a ford dinner and in arranged for the holding of a good room for us on our return from Harmingdale Farmington, new Mexics.

Crows. Oue large floch in bills unthe Mances - note seemed that a more maral than our crow.!? Blue-finited day, One in hills at mances. Un applicama. One on low hills at Mances.

Sept. 6, 1921, we wange, Colorado to farmington Mes Mexico.

Coto in une up about sense. Morgane

has been bitten by a Sept Cimer, and

he was of indignant to the clerk about

it. In had a good breakfast and then

went to the station, where trains for

month, east, worst and south une

lean. The word in me to train, that

to the south, is the inly read in the

vicinity which is the inly read in the

vicinity which is the unly read in the

vicinity which is the unly read in the

vicinity which is the mand and pauge, but

the cars are marrow fange care placed

on standard fange trushs, and and

addition is bolked on to the bottom steps of the cars on & account if the hight of the trusho. The trusho is no bitter laid than the narrow fange, and its width is to porty panger that the can blew violently from flange to flange. Ou the way down in thunted freight, filled section gango waters barrilo and district extra a plat car lond of men ties in about how miles of road. all of this trok time, and once in me forty muits late, but un ina a lacific Kype Hundard Jange engine and the made most of it up before reaching Farmington. he followed down The animas Rino until it fried the San Juan, the Indering montains turning to trills and then to means, passing from their who to a crumbly thate with a hard Capping layer and in some places with the lune status merely in durated clay. The yan Fran Halley from after to Harmington is well cultivated in many places and tamington itself is a really beautiful time, with confortable homes, beautiful shade trus, Ame whinds and fields of splinded crops and uniderful alfalfa. Mime som established at

allenis 14stil, a small but comfortable place, with an arimudating propriet tarmington recently had it's ilutrice light plant found down, so the town has had to full back in lamps, which is quite an anny succe to ito people. after a good dinner in arranged for a marking and must about three miles out to the na I lata I cine, which joins the San hear just below the form, and along the hills about a mile along The stream princhere in winhed for nearly three homo, The environments examined une rim flut of tage and "greasund" Laline and alkali grass patches along the matre, and The Kny clopes and grassy topo of the tills. I musher of the things tuhen one of my great intrest, as Mestobregue Herruste, deprus interior and Congra accuminate. Gring tack to The hotel at fine my had to work hand to get our matrial prepared a Honed before sunset. a good support filled is tothe up and then Morgan forthe The machine to prospect for decticido, sucuring a most interesting terres of Magrootina Great Blue Heron. Ulme in slough between agte a tarnington. Ked Shafted Hicker. Que flying- Eminas Vally.

and there in spent about half an hour on the slope, picking up more Repres and a sew of their shings. Before lunch us prepared and pucked our matrical and at 1.35- P.M. in left for hurango, where in animal on hime at 4.40 P.M. The letter people had kept their und and assigned us a double rooms which appeared to be perfectly clean. after dimen letters and scribbing occupied us for some time.

Trial Blue Heron. Our flying along

Great Blue Herow. Our flying along slowflow with a Detec. M. M. Just sp. ? but either famble in Scaled. Our flich flushed near the Hate line. Mappies. Simal sun man Centre. also mean Farmington.

Sept. 8, 1921. Vicinity of blurango, Colorado.

Learing the hotel at 7. vo in travelled

month, via a tim ligie, up the valley of the

Cinimas Rine. Me inches first wear

Pintherton 14st Logo, where in an emmon
ment of tall bull pines in located are

interesting Drimer stopis. The valley

bottom is about entirely cultivated

and your wish in ansegnence is always

rustricted to the low slope of the Induring mountaines, the upper protino of which are largely clifts of their intreal. / Ceturing down the valley a few miles we implied near the stillement of dumas on a stope with miper and sage, with much yellow - flowed composition. Here und pot a funt-unged agenestating and simal the mest wheresting Things - I cuturing to the hotel in put up our mathia, had lunch this time down the valley in hand about four miles to near Carbon. further, where Mugan had sun a Makely piece of ungrayed bottom and yesterday, when in refurmed from examined with my good results, and from that point on traccolored and pinns comed slopes on the east side of the valley. A side from a single Lipino - he peopeo une not noteworthily production. In me buch it the hotel at J. vol. If he down in both in The mones.

Remo Broken, temal at Pulartin Hot motion Robin. Semal about muches when the show the suches about muches the page.

Magpie. Firmal ditto.

Sept 9, 1921, neurango, Colorado to Chama, New Mexico up at 7, in breakfasted and left the thotal at 8, 20. Our traw left primptly at 9 am. for Chama, and we had reats in the little parlor car which comes down from Sitouten and free to ilamosa A was a beautiful day, such as un tran been blessed with for nearly warele. Among the pursungers in our car was a Mr. Likamo of ilenow, a most whereasting man whom in had met at the dunie tatte at ilmango. It was orginally from Brothlyn was an egg collector and also was interested in hypidoptina. His trif collection is mos in the Brothlyn matiket He Andried at the Brothlyn Polytechnic Then Pruduated from the toundie School & Mine, came with in the early 800 and apparently is must one of Coleyades wratthy men, interested in voices, muching, but ongar and many other things, and in any may a through

gentleman. From the amina balley the Frain steadily climbed to The Hounda I lesa then dropped to the Horida Pains then that ted and turned into the San Then up a tributary the Manys Then me to brigh divide and down into he Chama drainage, It blule is the agency for the warilla repartie undians and many of them were armed while a much of tupes were in seidence in miles to the most of Chamas one can we The Cumbres / Cange trong up to the east, a light but not inspiring range with me above timber ine peaks. aring at Chama at 2.201.M. ur une som established in the little Chama Hitel, and had a buick one fite courses fushick of the tom, though "bull pine fruit, across Stubble fields and up hill stopes with tall undo and prasses, getting quite an interesting lot of material, and in the way back sucred grite a few Udeopsylla under logs and dead word age among the for mere than I endly underful supper, on matinal in retired about mine Mil-tuil Harrh, fork view, me flying Sept. 10, 1921. Chama, New Mexico to has Pinco, Congro Co., Colmado. after a ford night's rest and a very. sutto factory breakfast we under off to the wort of Chama through the bull sine words, fitting a river of fufusus and also of Udeopoylla. We also surring around into the lower land along The Chama Kim and wheat there in wedy field and tall grass. Um train to the east was but about 30 minutes late, and we left Chama without a my clear idea of where we were to spend the night. In ascerdained that no roads into the Combreo pass rigin existed from The Chama regime, and also Mingan had made vain efforts to get the beligrapher at Cumbres, in the belighence, to take us infor the night, without success. In left Chama with ticheto for Cumbres, as we kneed the fram stopped there a few minutes, Morgan brunes of tried further persussion in the agent without turnes, as he had no room, but he said that at his Pinos, five miles brynnd ur could get lodging. On the train again un got and off at hos Pinos, were in me delighted to find that And young ranchinan until put us up at Their (Ines rauch. It was a te log calin with a sof-rest, in which

grass was growing, probably the most picturesque place in which I haven stayed. In in som comfortably settled in a good clean rooms, had a fine wholesome dumer and then we untiled them bringing in the cattle, of which they had about it by head, as well as a thousand theep. It cooled my conside as darhues came on, but not as much as might have been expected That of Cumber 10008 feet, so the deffice uns slight. There is a flat pulley wearly 3/4 of a mile unde with rounded montara ridges in each side, which rise about 1600 to 1800 feet alm the valley, with scattered from of fir and balans, in places Lotis frest of considerable extent. To the mot of the runch there heads up the Es Pins Rine, which is the Heart which carry the Dolfee Gorge, The milroad surings around the und of two ridges and makes a great loop in the valley. The Hum is famous for its front. me turned in two quilto and a double Stubet in our bid, and in had a Unnight, computable right.

Sept 11, 1921. No lines, Conego Co., to alamora, Ilamoon Co, Colnado. a breakfast, with hot cakes, as we had had dinne the night before. with this settled in stacked at 7.50 for a climb to the top of the ridge to the southerest of the dis Veins runch. The ridgerise in runded tenches and it was imposible to withe top from kno lines The low section on that side was francy, with bury patches and scattered fire, and here we friend Cinabrus and fine Milanoplido. This was succeeded by a belt of heavy fir and balsam friest, quite dense and with deep shadows any Hupraines, with its upper edgivett much dead wind fall tinhe alm we This is the rather rounded summit done, of feet high to the south and moth-east. These cliff had ling value stopes of twhen with and there coneys blisted and manuals whistled me of the latter being very emphatic in his protests and not at all thy in exposing & himself. a Entamia chipmanh also frished armed

at the fame elivation. One elivation of the summit of the ridge in figured fun Cumhes which was inable just below us, as 11200 feet and fine it in and we the full line of the laugue de Cristo to The east, what un presume une the ony raged faita montain to the moth and the Chama Peak to the inthe appear to be a duply ended a rounded plake as most of the ridges are of about the Some elebation. The regitation on the summit of the ridge was fir, with branches extruding suthund, and the wind and my thing and cold. No true timbriline andition une present. In unhed buch down the slope, past a little take in which a confiding but midestified wild duck fed in prefect serently. In the mendow of the valley bottom un found a fine species of Mustethins present in fair numbers and both before and after lunch we made a very successful sourch for them. at 2.00 1.m. in start to inscent, dip and Huff a large batch of matriel, leaving the pashing intil iming. In the mentione, the mind had brien it had turned cold wied heavy frey

chunds hung all around. Our hostsaid it listed like sund in the peak and the start of real fall with theme they were the cattle out raily in October and the valley is under many feet of our all uniter. at from in transported our baggage to the unter tank and finally our Fram come along 30 minutes late but not before semal little themen had probable me, we saw a double rambor on the valley and then at denst a temporary clearing Runing down to antivity uno our entirely new country to us and when the truin stopped at the Tolter grage, where The his Pins Rima has ent down though 1700 feet of which rock, it was grite a right. The & railroad turnels, troisto, almost switchtack with numerous Innsheds. In made fair time to antmito, fitting There 25 months late, but we made up sufficient to be only 10 minutes late when we arrived at alamore at 8. 201.M. I'm installed in The Victoria Hotel and turned in tirel not after a hand day, but me with much to di creex

Jesse - toud horsprehm. Due in fir frest at about 10000 fect. A undprihm with solid white wing buro (longitudinal, me on each side) below (prob. Sphyrapino), at same print, one. June Pine frohak. Van reddish fri frest apparently sugrating. Richy Motor, Jay, One in fir frust. March Harrh. One im Cas Pins meadows. Duch? sp. In pond at 10800 feet, and agree Bluebind. Hested in the en side of ranch - saw hids.

Sept. 12, 1921. Vicinity of alamora Colorado, and en routs to Pueblo: after breakfast un secured a Fred and an Malian - American driver who hailed

from theladelphia, and who was a most enthusiastic rooter for his home town. In mut out into a price of lind count

with atriplex and two rubbit und

had good lively and samuel for about

And how, then transferred our activities to a feel more sandy unimount Apedrimentopie. After limele un must not to the east, toward Blanca, and wheel along the 1005 fraude in frankand and semal prints some distance east of that, in untrucked brush, such as was examined this and, and also wedy fields, a few interesting things were taken, but nothing additional to the mining's und. In une buch at the hotel thing after fruit, put up our matrial, packed, had dinner and left at A40 1.M. in the Luper for Pueblo. Burning Out. 'Our at thetento alaucoa Magpie. Lema near alamos. Brunis Blackbird, Commen detto. March Harrh, Our aling Res franke.

Sept. 13.1921. Vicinity of Pueblo - en route lame.
In und up and If the sleeper at.
7, 10 BM., grickly fetting to the Vail
Notel, getting a river and then a
sutrofacting breakfast. a few things
like laundry, tailoring, mail - drafts
orangiel time time and then we
une for a machine for the worning

balley. In maked until after clean at the different points, there returned To tom, did preparation unt in The matrial, had lunch a some off afaire to the same bluffo we had seen some distance with of where in une this aus. Here in wholed for about new how, then buch to Pueblo, Matrial to prepare - pach, a good thorough reputhing of me tres took is until dinner time. In the uning in west for the mines, strangely in civies, the first for mearly a month and at 11. 30 PM. in bruded the sleeper for Chicago and home.

Burning Clark, Come mean Pueblo, Trial (family?) 2 adults - comy of inly half from young mean Pueblo. Turning hom. (And wear Pueblo.

Sept. 16, 1921. arind at Month.
Thila at 7. 29 am. m"Manhallan
Limited!

2 3



